SITE ASSESSMENT REPORT FOR ESI ENVIRONMENTAL, INC. SITE ASSESSMENT INDIANAPOLIS, MARION COUNTY, INDIANA

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Emergency Response Branch Region V 77 West Jackson Boulevard Chicago, Illinois 60604-3507

Prepared by:

WESTON SOLUTIONS, INC.

20 North Wacker Drive, Suite 1210 Chicago, Illinois 60606

Date Prepared November 1, 2010

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LIST OF ABBREVIATIONS AND ACRONYMS

B&T Barnes & Thornburg, LLP
CFR Code of Federal Regulations

City City of Indianapolis

DAF Dissolved Air Flotation

DPW Department of Public Works
ER Environmental Restoration, LLC

ERO Extended Range Organic

ERRS Emergency and Rapid Response Services

ESI Environmental, Inc.

ft² Square Feet

HazCat Hazard Characterization

IDEM Indiana Department of Environmental Management

Marathon Oil Company

MCHD Marion County Health Department
MCL Maximum Concentration Limit

mg/kg Milligram per kilogram mg/L Milligram per liter

NCP National Oil and Hazardous Substances Pollution Contingency Plan

OSC On-Scene Coordinator

Pace Pace Analytical Services, Inc.
PCB Polychlorinated Biphenyl

RISC Risk Integrated System of Closure

RSL Regional Screening Level

START Superfund Technical Assessment and Response Team

SVOC Semivolatile Organic Compound

TCLP Toxicity Characteristic Leaching Procedure

TDD Technical Direction Document
TPH Total Petroleum Hydrocarbon

U.S. EPA U.S. Environmental Protection Agency

VOC Volatile Organic Compound

WESTON Weston Solutions, Inc.

WWTP Wastewater Treatment Plant

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1. INTRODUCTION

The U.S. Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to assist U.S. EPA On-Scene Coordinator (OSC) Verneta Simon in performing a site assessment at the ESI Environmental, Inc. (ESI) site (Site), located in Indianapolis, Marion County, Indiana (Figure 1-Under Technical Direction Document (TDD) number S05-0001-1008-022, U.S. EPA requested that WESTON START document current site conditions; obtain photographic documentation; and evaluate the potential for imminent and substantial threats to human health, welfare, and the environment posed by Site-related conditions. On September 1, 2010, WESTON START conducted a site walk under the direction of OSC Verneta Simon. U.S. EPA member Bill Ryczik, Indiana Department of Environmental Management (IDEM) member Harry Atkinson, ESI President Thomas Gawlik, and legal counsel representing ESI Barnes & Thornburg, LLP (B&T) member Michael Scanlon were also present during the site walk. On October 8 and 9, 2010, WESTON START and Environmental Restoration, LLC (ER) the Emergency and Rapid Response Services (ERRS) contractor conducted a site assessment under the direction of OSC Verneta Simon. Representatives from the City of Indianapolis, IDEM, United Water, Pike Township Fire Department, and Trustee were also present during the site assessment.

This Site Assessment Report is organized into the following sections:

- **Introduction** Provides a brief description of the objective and scope of site assessment activities
- **Site Background** Details the Site description and its known history
- Site Assessment Activities Discusses the site observations made and activities conducted during the site assessment
- Analytical Results Discusses the analytical results for samples collected during historical sampling events and the site assessment
- Threats to Human Health and the Environment Identifies Site-related conditions that may warrant a removal action under the National Oil and Hazardous Substances Pollution Contingency Plan (NCP)

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• Conclusions and Recommendations – Summarizes the site assessment findings and recommendations for further Site activities as needed

2. SITE BACKGROUND

This section discuses the site description and history.

2.1 SITE DESCRIPTION

The Site is located at 4910 West 86th Street in Indianapolis, Marion County, Indiana and is

situated in a commercial and industrial setting. The approximately 8-acre Site includes a

wastewater treatment plant (WWTP) consisting of wastewater processing equipment, a sludge

treatment building, a sludge treatment process, an oil dehydration process, and a truck off-

loading building (Figure 2-1). The southwest parking lot was sub-leased by ESI from Asphalt

Materials who leased this parcel from Marathon Oil Company (Marathon). The

The state of the s

office/maintenance building and rail yard unloading area was leased by ESI from Marathon. The

Site is bordered to the north by an industrial property, to the south by West 86th Street with

commercial properties beyond, and to the east and west by open land. The coordinates for the

Site are latitude 39.912866° North and longitude -86.24213° West. It should also be noted that

the ESI corporate office is located at 5232 West 79th Street, Indianapolis, Marion County,

Indiana.

The Site is a provider of liquid waste management services and a recycler of used oil under 40

Code of Federal Regulations (CFR) Part 279. The primary wastewater processing equipment

includes API oil/water separators, dissolved air flotation (DAF) units, oil storage tanks, sand

filters, rotary vacuum filters, plate and frame filter press, and oxidation pit. The facility collects,

processes, recovers, and disposes of non-hazardous wastewater, a byproduct of industrial and

commercial manufacturing plants. The Site has the capability to treat a variety of non-hazardous

liquids and accepts bulk, drum, and containerized liquids. All loads received into the facility are

treated and processed to separate contaminants. The water collected during this process is

discharged separately into the City sanitary sewer system and the contaminants are further

processed into a form that allows proper recycling or disposal. Any oils recovered from the

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process are shipped off-site for reclamation. The Site was designed such that all storm water

falling in the Site is captured in its internal sewer system and is ultimately run through its

wastewater processing equipment prior to being discharged into the City sanitary sewer system.

Figure 2-1 and Table 2-1 present the features of the Site. Over forty storage tanks (waste oil, raw

water, sulfuric acid, caustics, hydrogen peroxide, and sludge), separators (oil-water), sumps (oil),

and air strippers are located on-site and range in size as outlined below:

• One 1,000,000-gallon Oil Storage Tank ("A" on Figure 2-1) currently holds

approximately 300,000-gallons of possible PCB containing sludge.

• Two 1,000,000-gallon Raw Water Storage Tanks ("J" on Figure 2-1) currently hold a

total of approximately 1,500,000-gallons of material (East Tank contains approximately 900,000-gallons of sludge and West Tank contains approximately 600,000-gallons of

sludge).

• Other storage tanks range in size from 3,000 to 90,000-gallons and contain waste oil, raw

water, sulfuric acid, caustics, hydrogen peroxide, and sludge; however, the volume of

material stored in each tank contents is unknown.

• Separator Tanks range in size from 3,000 to 30,000-gallons; however, the exact volume

total of contents located on-site is unknown at this time.

• Sump is 4,000-gallons; however, the volume total of contents located on-site is unknown

at this time.

• Air strippers range in size from 5,000 to 30,000-gallons; however, the exact volume total

of contents located on-site is unknown at this time.

2.2 SITE HISTORY

The following sections present the history of the Site.

2.2.1 2007 Release Information

A Spill Report dated August 29, 2007, states that a release from the Site occurred on March 15,

2007, during a heavy rain event. The material spilled was untreated oil and water from the Site

that entered the City sanitary sewer system via a by-pass sewer (used for permitted special

waste), that had been left open. The amount of material released during this event is unknown;

however, according to site personnel, it was less than 500-gallons. Due to the heavy rain event,

the City sanitary sewers overflowed at several locations in the northern portion of Indianapolis,

which resulted in the deposition of the material and sewerage onto vegetation in residential and

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commercial areas (Figure 2-2 and Table 2-2). The basement of a residence was also impacted at

one location.

Contaminated soil and debris was excavated from at least 25 residential properties and two golf

courses. The affected basement was cleaned and the sump pump and hot water heater were

replaced at the request of the homeowner. Subsequent to excavation activities, soil samples were

collected from the residential properties using a 900 square foot (ft²) sampling grid and from the

Coffin and Riverside Golf Courses using a 2,500 ft² sampling grid. Background samples were

also collected at select areas.

Numerous sampling activities were conducted by various agencies from March through June

2007 (Table 2-3a through 2-3f) in the affected areas. Residential soil samples exceeded the

IDEM Risk Integrated System of Closure (RISC) Residential Total Petroleum Hydrocarbon

(TPH) Non-Default Closure Levels for extended range organics (ERO) (80 milligram per

kilogram [mg/kg]). The residential exceedances ranged from 85 to 2,900 mg/kg. Several

residential properties had TPH-ERO exceedances subsequent to two separate excavations.

IDEM stated the remaining exceedances could stay in place since the soil may be (a) partially

attributable to high background levels and (b) better remediated by natural processes including

natural degradation and phytoremediation. All TPH results for the golf courses were below the

applicable cleanup objectives. It should be noted that several concentrations of arsenic, mercury,

chromium, lead, and various volatile organic compounds (VOCs) and semivolatile organic

compounds (SVOCs) exceeded IDEM RISC Residential/Industrial Soil Default Closure Levels

and U.S. EPA Residential/Industrial Soil Regional Screening Levels (RSLs). It is unknown if

the exceedances are related to the 2007 release.

Wipe sampling was conducted in the basement of a residence using a 1 ft² sampling grid. All

results were below the applicable cleanup objectives.

Residential water well sampling was also conducted with all results below the applicable cleanup

objectives with the exception of arsenic (0.012 to 0.016 milligram per liter [mg/L]) which

exceeded the U.S. EPA Maximum Concentration Limits (MCLs). It is unknown if the

exceedances are related to the 2007 release.

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A professional landscaper restored the lawns after the properties had been cleared by sampling

results. The course operators restored the golf courses.

A total of 6,000 gallons of oil and water was removed from the north storm sewer cistern and

transported to the Site for treatment. A total of 5,800 gallons of oil and water was removed from

the Coffin Golf Course Lake and transported to the Site for treatment. A total of 1,600 yards of

contaminated soil and debris was removed from impacted areas and transported offsite for

disposal.

The north storm sewer cistern discovered by IDEM and Marion County Health Department

(MCHD) and initially identified as a potential source of the release was determined to be a non-

functioning sewer and was not the source of the oil from the incident. On April 10, 2007, the

pipe from the Site to the cistern was plugged and the cistern was filled with concrete to prevent

any possible problems with this structure in the future. On April 17, 2007, the by-pass sewer

was permanently sealed with concrete.

2.2.2 2007 PCB Containing Oils Information

On July 18, 2007, the Site was notified by a customer that it had discovered approximately 28

mg/kg of polychlorinated biphenyl (PCBs) in a used oil shipment from the Site. The customer

returned the shipment to the Site and it was placed in a segregated holding tank. Samples were

collected from each of the product storage frac tanks and other process tanks located at the Site

and analyzed for PCBs. The Site discovered that detectable PCBs were present in four loads of

oily water from one generator/transporter. All equipment was decontaminated with kerosene

beginning on August 1, 2007. The recovered kerosene was transferred to the Oil Storage Tank

designated "A" on Figure 2-1. In addition to the recovered kerosene, all pumpable materials

(liquid and suspended solids) that could be pumped through existing and temporary lines were

pumped to this tank. Materials that could not be pumped to this tank were placed in designated

frac tanks while recovered centrifuge solids were stored in the Oil Water Separator designated

"H" on Figure 2-1. These materials were disposed of off-site in July 2008.

From October 2008 to August 2009, approximately 660,000-gallons from Oil Storage Tank

("A") were transported off-site for disposal. This tank currently contains approximately 300,000

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-gallons of sludge.

2.2.3 2009 Release Information

Reportedly another release occurred in early 2009. The City-Department of Public Works

(DPW) collected background, sludge, and soil samples from various residential and commercial

properties in February and April 2009 (Figure 2-2 and Tables 2-3a and 2-3b). Residential soil

samples exceeded the IDEM RISC Residential TPH Non-Default Closure Levels for ERO (80

mg/kg). The residential exceedances ranged from 230 to 3,800 mg/kg.

2.2.4 Current Information

In anticipation of the Site being permanently shut down, a Partial Closure Plan was drafted

which focuses on managing storm water run-off post shut down to insure that the storm water

remains uncontaminated and is properly drained from the Site. The storm water would be

directed away from existing process equipment and allowed to flow into "Oil Creek" which runs

to the east of the Site. Storm water currently empties into one of the two Raw Water Storage

Tanks ("J").

In a press release dated September 27, 2010, ESI announced that it would discontinue accepting

waste material and end its operations effective October 1, 2010.

3. SITE ASSESSMENT ACTIVITIES

On September 1, 2010, U.S. EPA OSC Verneta Simon; U.S. EPA member Bill Ryczik, IDEM

member Harry Atkinson; ESI President Thomas Gawlik; legal counsel representing ESI B&T

member Michael Scanlon; and WESTON START member Marcus Muccianti conducted the site

walk.

On October 8 and 9, 2010, U.S. EPA OSC Verneta Simon, WESTON START, and ER ERRS

conducted a site assessment. Representatives from the City, IDEM, United Water, Pike

Township Fire Department, and Trustee were also present.

The objective for this site assessment was to determine whether the Site poses an imminent and

substantial threat to human health, human welfare, and the environment. Hazard characterization

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(HazCat) was conducted by ERRS.

3.1 SITE OBSERVATIONS

Observations during the site assessment are summarized below.

• An asphalt and concrete berm surrounds the entire Site. Sand bags make up a portion of the berm near the solidification area. A secure fence is also present along the perimeter

of the Site.

• The 1,000,000-gallon Oil Storage Tank ("A" on Figure 2-1) currently holds

approximately 300,000-gallons of possible PCB containing sludge.

• The two 1,000,000-gallon Raw Water Storage Tanks ("J" on Figure 2-1) currently hold a total of approximately 1,500,000-gallons of material (East Tank contains approximately

900,000-gallons and West Tank contains approximately 600,000-gallons).

• All storage tanks onsite seem to have secondary containment; however, a complete

assessment of the storage tanks, separators, sumps, strippers, and buildings was not

completed during this site assessment.

Appendix A provides photographic documentation of Site observations.

3.2 SAMPLING ACTIVITIES

Sampling locations were selected based on site observations. Sampling locations were chosen to

be representative of areas posing a potential risk to human health and the environment. The

samples collected by ER ERRS were then HazCat to determine if additional analyses were

needed. The HazCat Sampling Logs are presented in Appendix B.

ERRS collected 38 samples from onsite tanks, frac tanks, tankers, and roll-off boxes for HazCat.

Figure 3-1 and Table 3-1 present the HazCat results. Of these samples, five (D-South, Tank,

Frac 7, Frac 8, and Frac 9) were submitted to Pace Analytical Services, Inc. (Pace) for PCB

analysis. In addition, the samples from D-South and Tank were also analyzed for toxicity

characteristic leaching procedure (TCLP) Metal analysis.

4. ANALYTICAL RESULTS

As stated above, numerous sampling activities were conducted by various agencies from March

2007 to April 2009 (Tables 2-3a through 2-3f) in response to the releases in 2007 and 2009.

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IDEM stated the remaining residential soil exceedances could stay in place since the soil may be

(a) partially attributable to high background levels and (b) better remediated by natural processes

including natural degradation and phytoremediation. During sampling events in 2007, several

concentrations of arsenic, mercury, chromium, lead, and various VOCs and SVOCs exceeded

IDEM RISC Residential/Industrial Soil Default Closure Levels and U.S. EPA

Residential/Industrial Soil RSLs. It is unknown if the exceedances are related to the 2007

release.

On March 22, 2007, eight residential properties were sampled and analyzed. Four of the eight

residences had exceedances of the U.S. EPA MCLs for arsenic. It is unknown if the exceedances

are related to the 2007 release.

On September 1, 2010, U.S. EPA, IDEM, ESI, B&T, and WESTON START conducted a site

walk. No investigative samples were collected during these activities.

On October 8 and 9, 2010, U.S. EPA, WESTON START, and ERRS conducted a site

assessment. Representatives from the City, IDEM, United Water, Pike Township Fire

Department, and Trustee were also present. ERRS collected 38 samples for HazCat. Of these

samples, five (D-South, Tank, Frac 7, Frac 8, and Frac 9) were submitted to Pace for PCB

analysis. In addition, the samples from D-South and Tank were also analyzed for TCLP Metal

analysis. The laboratory analytical results are presented in Appendix C. The results indicated

the following:

• D-South: All PCB results were non-detect. TCLP Metals detected were barium,

chromium, and lead; however these were below the applicable screening criteria.

• Tank: All PCB results were non-detect. TCLP Metals detected were barium and

chromium; however these were below the applicable screening criteria.

• Frac 7: All PCB results were non-detect.

• Frac 8: All PCB results were non-detect.

• Frac 9: All PCB results were non-detect.

5. THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Factors to be considered in determining the appropriateness of a potential removal action at a

Site are delineated in the NCP at Title 40 of the CFR 300.415(b)(2). A summary of the factors

applicable to this Site is presented below.

• Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances, pollutants, or contaminants

On March 15, 2007, a release from the Site occurred during a heavy rain event. The release was untreated oil and water from the Site that entered the City sanitary sewer system via a by-pass sewer (used for permitted special waste), that had been left open. At least 25 residential properties and two golf courses were affected by this incident.

Reportedly another release occurred in the beginning of 2009. Sludge and soil samples were collected from eight residential properties and one golf course.

Two releases (2007 and 2009) have occurred at the Site resulting in residential property contamination of soils with TPH-ERO exceeding the IDEM RISC Residential TPH Non-Default Closure Levels.

• Actual or potential contamination of drinking water supplies or sensitive ecosystems

Subsequent to the 2007 release, of the 25 residential properties affected, 10 of them have a drinking water well present. On March 22, 2007, eight residential properties were sampled and analyzed. Four of the eight residences had exceedances of the U.S. EPA MCLs for arsenic (concentrations ranged from 0.012 to 0.016 mg/L).

There is no data for residential water well sampling subsequent to the 2009 release.

Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release

Over forty storage tanks (waste oil, raw water, sulfuric acid, caustics, hydrogen peroxide, and sludge), separators (oil-water), sumps (oil), and air strippers are located on-site and range in size from 3,000 to 1,000,000-gallons. Storm water could fill these tanks causing these tanks to overflow resulting in an offsite release.

Two releases (2007 and 2009) have occurred at the Site resulting in residential property contamination of soils with TPH-ERO exceeding the IDEM RISC Residential TPH Non-Default Closure Levels.

• Weather conditions that may cause hazardous substances, pollutants, or contaminants to migrate or be released

A release from the Site occurred on March 15, 2007, during a heavy rain event. The release was untreated oil and water from the Site that entered the City sanitary sewer system via a by-pass sewer (used for permitted special waste), that had been left open. Due to the heavy rain event, the City sanitary sewers overflowed at several locations in

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the northern portion of Indianapolis, which resulted in the deposition of the material and sewerage onto vegetation in residential and commercial areas.

Reportedly another release occurred in the beginning of 2009. Based on the additional release subsequent to the permanent closure of the north storm sewer cistern and by-pass sewer on-site, it is unknown how the material from the Site appeared in the City sanitary sewer system and was released in the above mentioned areas.

These two releases (2007 and 2009) have occurred at the Site resulting in residential property contamination of soils with TPH-ERO exceeding the IDEM RISC Residential TPH Non-Default Closure Levels.

6. CONCLUSIONS AND RECOMMENDATIONS

This section discusses the conclusions and recommendations based on the site assessment findings.

6.1 CONCLUSIONS

On September 1, 2010, U.S. EPA, IDEM, ESI, B&T, and WESTON START conducted a site walk. On October 8 and 9, 2010, U.S. EPA, WESTON START, and ERRS conducted a site assessment. Representatives from the City, IDEM, United Water, Pike Township Fire Department, and Trustee were also present. The objective for this site assessment was to determine whether the Site poses an imminent and substantial threat to human health, human welfare, and the environment. Based on the site walk, the following observations were made:

- The 1,000,000-gallon Oil Storage Tank ("A" on Figure 2-1) currently holds approximately 300,000-gallons of possible PCB containing sludge.
- The two 1,000,000-gallon Raw Water Storage Tanks ("J" on Figure 2-1) currently hold a total of approximately 1,500,000-gallons of material (East Tank contains approximately 900,000-gallons of sludge and West Tank contains approximately 600,000-gallons of sludge).
- Storm water currently empties into one of the two 1,000,000-gallon Raw Water Storage Tanks ("J"). Water from these tanks is then pumped out of the tanks and treated prior to discharge into the sanitary sewer.

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• Other storage tanks range in size from 3,000 to 90,000-gallons and contain waste oil, raw water, sulfuric acid, caustics, hydrogen peroxide, and sludge; however, the volume of

material stored in each tank contents is unknown.

A release from the Site occurred on March 15, 2007, during a heavy rain event. The release was

untreated oil and water from the Site that entered the City sanitary sewer system via a by-pass

sewer (used for permitted special waste), that had been left open. Due to the heavy rain event,

the City sanitary sewers overflowed at several locations in the northern portion of Indianapolis,

which resulted in the deposition of the material and sewerage onto vegetation in residential and

commercial areas. At least 25 residential properties and two golf courses were affected by this

incident. On April 10, 2007, the pipe from the Site to the north storm sewer cistern was plugged

and the cistern was filled with concrete to prevent any possible problems with this structure in

the future. On April 17, 2007, the by-pass sewer was permanently sealed with concrete.

Reportedly another release occurred in the beginning of 2009. Eight residential properties and

one golf course had sludge and soil samples collected.

These two releases (2007 and 2009) have occurred at the Site resulting in residential property

contamination of soils with TPH-ERO exceeding the IDEM RISC Residential TPH Non-Default

Closure Levels.

In a press release dated September 27, 2010, ESI announced that it would discontinue accepting

waste material and end its operations effective October 1, 2010.

Contaminants and conditions at the Site meet criteria established in the NCP for a removal

action.

6.2 RECOMMENDATIONS

Based on information gathered during the site assessment, WESTON START recommendations

are summarized below.

• A removal of wastes at the ESI site should be conducted to reduce the potential for a release of contaminated materials that could result in, but not limited to, any or all of the

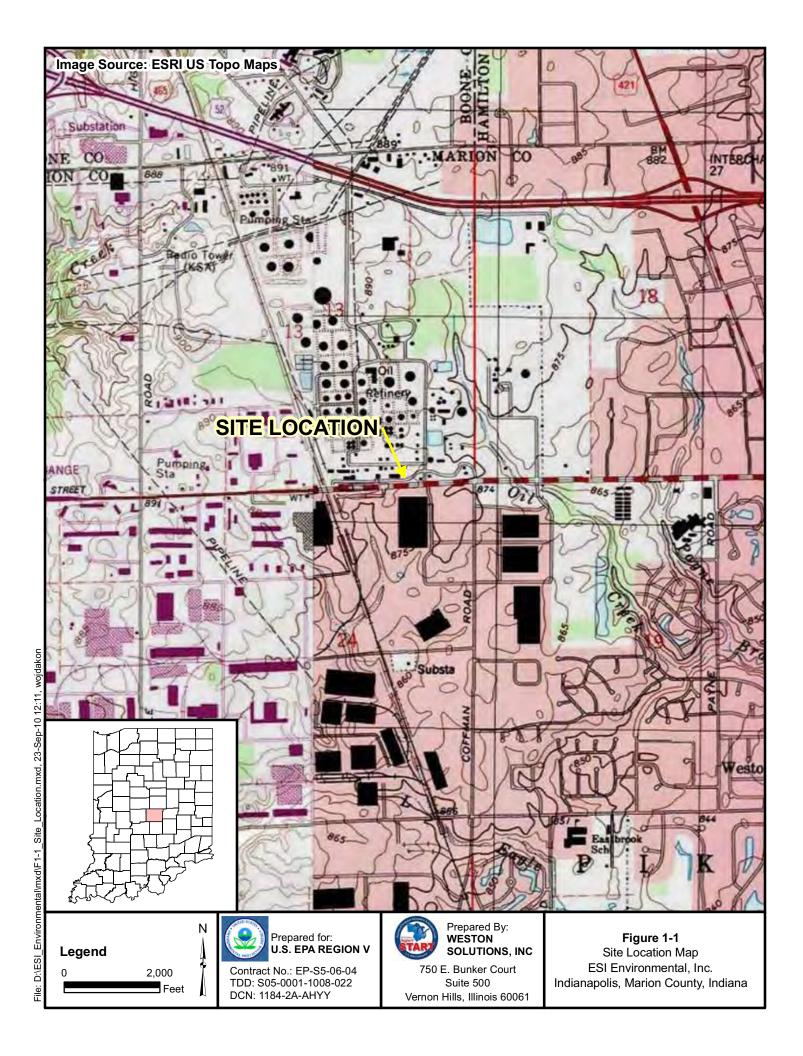
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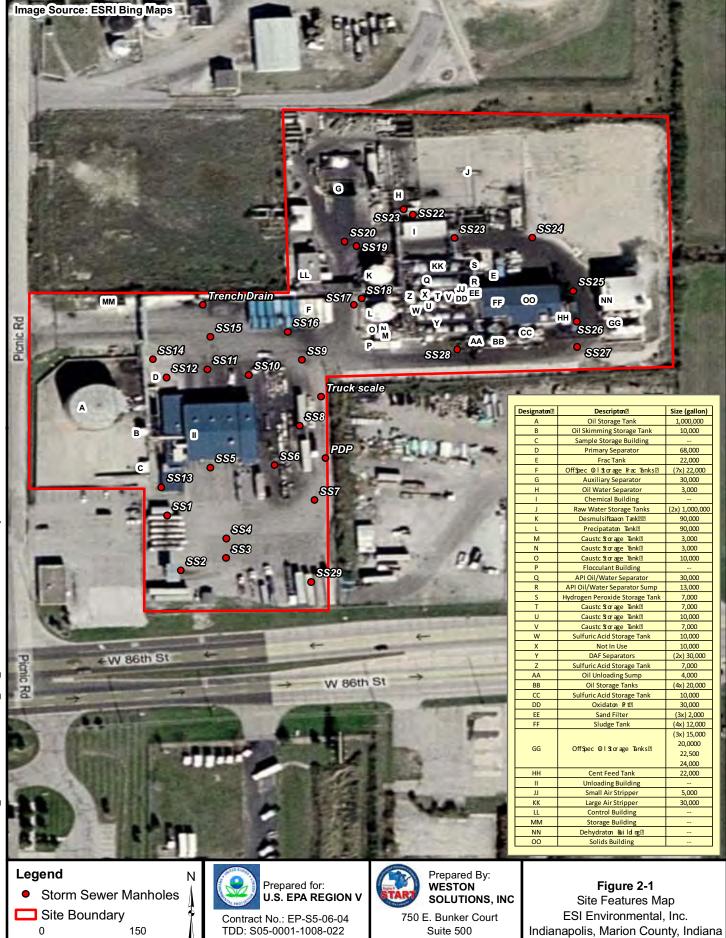
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- Actual or potential exposure of nearby human populations, animals, or the food chain to hazardous substances, pollutants, or contaminants;
- Actual or potential contamination of drinking water supplies or sensitive ecosystems;
- Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release; and
- Weather conditions that may cause hazardous substances, pollutants, or contaminants to migrate or be released.
- In anticipation of the Site being permanently shut down, a Closure Plan should be implemented to manage storm water run-off post and insure that the storm water remains uncontaminated and is properly drained from the Site. Storm water currently empties into one of the two 1,000,000-gallon Raw Water Storage Tanks ("J").

FIGURES





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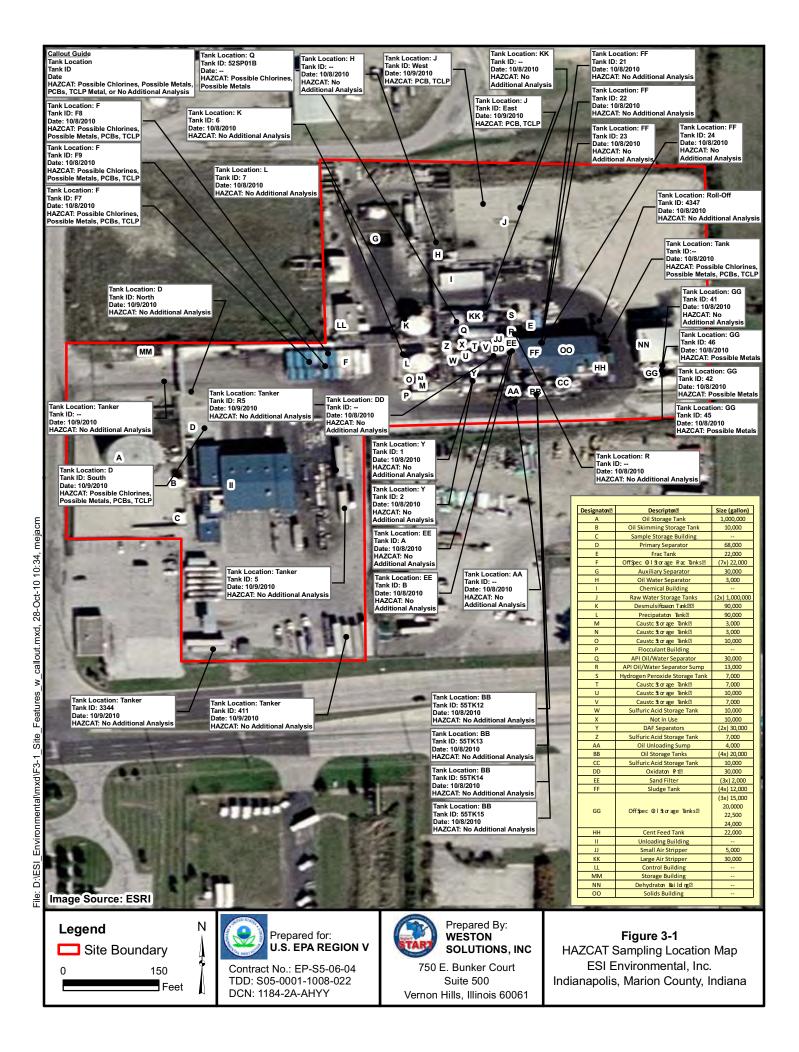
Feet

Vernon Hills, Illinois 60061

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TABLES

Table 2-1 Site Features Designations ESI Environmental, Inc. 4910 West 86th Street

Indianapolis, Marion County, IN

Designation	Description	Size (gallon)
A	Oil Storage Tank	1,000,000
A B C	Oil Skimming Storage Tank	10,000
С	Sample Storage Building	
D	Primary Separator	68,000
E	Frac Tank	22,000
F	Off Spec Oil Storage Frac Tanks	(7x) 22,000
G	Auxiliary Separator	30,000
Н	Oil Water Separator	3,000
I	Chemical Building	
J	Raw Water Storage Tanks	(2x) 1,000,000
K	Desmulsification Tank	90,000
L	Precipatation Tank	90,000
M	Caustic Storage Tank	3,000
N	Caustic Storage Tank	3,000
O	Caustic Storage Tank	10,000
P	Flocculant Building	
Q	API Oil/Water Separator	30,000
R	API Oil/Water Separator Sump	13,000
S	Hydrogen Peroxide Storage Tank	7,000
T	Caustic Storage Tank	7,000
U	Caustic Storage Tank	10,000
V	Caustic Storage Tank	7,000
W	Sulfuric Acid Storage Tank	10,000
Y	Not In Use	10,000
X Y	DAF Separators	(2x) 30,000
Z	Sulfuric Acid Storage Tank	7,000
AA	Oil Unloading Sump	4,000
BB	Oil Storage Tanks	(4x) 20,000
CC	Sulfuric Acid Storage Tank	10,000
DD DD	Oxidation Pit	30,000
EE	Sand Filter	
FF		(3x) 2,000
ГГ	Sludge Tank	(4x) 12,000 (3x) 15,000
		20,0000
		*
CC	Off Care Oil Steware Tealer	22,500
GG	Off Spec Oil Storage Tanks	24,000
HH	Cent Feed Tank	22,000
II	Unloading Building	 5 000
JJ	Small Air Stripper	5,000
KK	Large Air Stripper	30,000
LL	Control Building	
MM	Storage Building	
NN	Dehydration Building	
00	Solids Building	

Notes

Refer to Figure 2-1 for designation locations on-site

Table 2-2 2007 Spill Affected Areas ESI Environmental, Inc. 4910 West 86th Street

Indianapolis, Marion County, Indiana

		Water Well	
Designation	Address	Present	Affected Area
		(Y/N)	
Site		N	
Residential		N	basement floor drain back-up and flooded with sewage/oil
Residential		Y	manhole overflowed in side yard
Residential		N	manhole overflowed in front yard
Residential		N	manhole overflowed in front yard
Residential		N	manhole overflowed in front yard
Residential		N	manhole overflowed in front yard
Residential		N	manhole overflowed in front yard
Residential		Y	manhole overflowed in front yard
Residential		N	manhole overflowed in back yard
Residential		N	manhole overflowed in back yard
Residential		N	manhole overflowed along Grandview Drive
Residential		N	manhole overflowed along Grandview Drive
Residential		N	manhole overflowed in neighboring properties
Residential		N	manhole overflowed along Grandview Drive
Residential		Y	manhole overflowed in back yard
Residential		N	manhole overflowed in back yard
Residential		Y	manholes overflowed in Springwood Trail roadbed
Residential		Y	manholes overflowed in Springwood Trail roadbed
Residential		Y	manholes overflowed in Springwood Trail roadbed
Residential		Y	manholes overflowed in Springwood Trail roadbed
Residential		Y	manholes overflowed in Springwood Trail roadbed
Residential		Y	manholes overflowed in Springwood Trail roadbed
Residential		Y	manholes overflowed in Springwood Trail roadbed
Residential		N	manhole overflowed in back yard of neighboring property
Residential		N	manhole overflowed in back yard of neighboring property
Residential		N	manhole overflowed in back yard
Public	Manhole #930137	N	manhole overflowed in undeveloped woodland area
Public	Manhole #930009	N	manhole overflowed in undeveloped woodland area
Public	Manhole #930032	N	manhole overflowed in undeveloped woodland area
Public	Manhole #930033	N	manhole overflowed in undeveloped woodland area
Public	Manhole #930036	N	manhole overflowed in undeveloped woodland area
	Coffin Golf Course		
Commercial	2401 Coldspring Road, Indianapolis, IN	N	manhole overflowed in area of 11th Hole
	Riverside Golf Course		manhole overflowed in area of 5th, 6th, 10th, and 13th
Commercial	3502 White River Parkway, Indianapolis, IN	N	Holes and small pond

Notes:

Refer to Figure 2-2 for designation locations on-site

1184-2A-AHYY

Table 2-3a

Summary of Historical Sampling Events

ESI Environmental, Inc.

4910 West 86th Street

Indianapolis, Marion County, Indiana

						Analys	es		
Sample Date	Sampled By	Sample Area	Sample Type	TPH ¹	voc	svoc	РСВ	Metals	TCLP ²
3/16/2007	IDEM	Unknown	Solid (soil)	✓					
			Liquid (sewer)	✓ (no DRO)		✓		✓	
			Liquid (creek)	✓	✓			1	
			Liquid (other)						
			Sludge (oil)	✓ (no DRO)		✓		✓	
3/16/2007	MCHD	Various	Solid (soil)						
		Residential			✓			✓	
		ESI							
3/19/2007	ESI	ESI	Solid (soil)						✓ (no SVOC)
3/21/2007	City-DPW	Commercial	Solid (soil, bg)	,				,	√
		(golf courses)	Liquid (pond)	✓	✓	✓		√	
3/22/2007	ESI	Various	Liquid		√	✓	√	√	
		Residential	(water wells)			•	•	•	
3/26/2007	City-DPW	ESI-	Sludge (oil)	✓				✓	✓
4/2005	**	Storm Inlet							
4/2007-	Keramida	Various	Solid (soil, bg)		✓				
5/2007		Residential Commercial	•	✓ (no DRO)	(only PCE)				
		(golf courses)			(only I CE)				
6/7/2007	Keramida	Residential	Wipe	✓	✓				
11/19/2008	City-DPW	Various	Solid (soil, bg)						
		Residential	Solid (manhole)	✓(no DRO)					
2/12/2009	City-DPW	Commercial	Solid (soil, bg)						
		(golf course)		✓					
		Various		(only ERO)					
		Residential						ļ	
4/7/2009	City-DPW	Various	Solid (soil)	✓ (no DRO)					
		Residential	Solid (soil, bg)	(no DRO)			✓	<u> </u>	

Notes:

bg - background

City - City of Indianapolis

DPW - Department of Public Works

DRO - Diesel Range Organic

ERO - Extended Range Organic

ESI – ESI Environmental, Inc.

GRO - Gasoline Range Organic

IDEM – Indiana Department of Environmental Management

Keramida – Keramida Environmental

MCHD - Marion County Health Department

PCB – Polychlorinated Biphenyl

PCE - Tetrachloroethane

SVOC - Semivolatile Organic Compound

TCLP – Toxicity Characteristic Leaching Procedure

TPH - Total Petroleum Hydrocarbon

VOC – Volatile Organic Compound

¹-TPH includes DRO, GRO, ERO

²-TCLP includes VOCs, SVOCs, Metals

Table 2-3b City of Indianapolis-DPW Historical Sampling Event Results ESI Environmental, Inc. 4910 West 86th Street

	ī	· · · · · · · · · · · · · · · · · · ·	•		T	,		1110	папаро	dis, Ma		• •		a											
	Sample	TPH-GRO	TPH-ERO	TPH-DRO	VOCs	SVOCs	PCBs			To	tal Meta	als (mg/	kg)						T	CLP (n	ng/L)				
Sample ID	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	As	Ba	Cd	Cr	Pb	Se	Ag	Hg	VOCs (µg/L)	SVOCs (µg/L)	As	Ba	Cd	Cr	Pb	Se	Ag	Hg (µg/L)
Sludge			3,000,000	<u>67,000</u>												BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Background	02/12/09		52																						
1			780																						
1		BDL	1,300																						
2	04/18/07	BDL	2,900																						
3	04/18/07	BDL	1,200																						
4		BDL	500																						
Background	11/19/08	BDL	13																						
1	11/19/06		78				1			-		-	-	-	-	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Sludge			<u>340,000</u>	<u>130,000</u>																					
Background	02/12/09		6.3																						
1			8.9													BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Background	04/07/09	0.36	400				BRL																		
1	01/07/07	0.11	1,100				BRL									BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
								1	1	1		1	1	1	1	1		1		-			1	1	
Sludge			<u>390,000</u>	<u>96,000</u>												BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Background	02/12/09		25																						
1			3,100													BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
D 1 1		0.11	40		1	1		I	I							ı		I	1	1	1	1		I	
Background	04/07/09	0.11	40																						
1		0.84	1,600																						
1	04/07/09	9.1	3,800													BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
_	0 1/ 0 // 0 /	<i>,</i> , , ,	2,000					<u> </u>								21.2	2.0		1 2102	2112	1 2102		DILL	2112	2112
Sludge			450,000	82,000			BRL																		
Background	02/12/09		20																						
1			230																						
Riverside Golf (Course				•			•	•										•	•	•	•			
Background	03/21/07	BRL	20	BRL				6.04	96.9	BRL	12.6	21.0	BRL	BRL	BRL	BRL	BRL	BRL	0.392	BRL	BRL	BRL	BRL	BRL	BRL
1		BRL	210	BRL				5.84	89.2	BRL	13.4	24.1	BRL	BRL	183	BRL	BRL	BRL	0.297	BRL	BRL	BRL	BRL	BRL	BRL
Coffin Golf Cou	ırse				•	•		=	=	='	•	•			='	-		-	-	-	-	-	='	-	-
Background		BRL	37	BRL				4.63	58.9	BRL	7.1	37.2	BRL	BRL	246	BRL	BRL	BRL			BRL		BRL	BRL	BRL
1	03/21/07	BRL	26	BRL				4.97	61.8	BRL	8.38	18.5	BRL	BRL	1120	BRL	BRL	BRL			BRL	BRL	BRL	BRL	BRL
2	03/21/07	BRL	BRL	BRL			-	3.3	66.1	BRL	7.56	14.6	BRL	BRL	54	BRL	BRL	BRL	0.701	BRL	BRL	BRL	BRL	BRL	BRL
Pond		BRL	BRL	7	BRL	BRL		0.062	1.74	BRL	0.145	0.195	BRL	BRL	1.03										
Background	02/12/09		20																						
1			270																						
ESI - 4910 West	t 86th Stree	t, Indianapo	lis, IN		1	1				1	1		1	1	1	70÷	140*	1		1	1	_	1		
Storm Inlet	03/26/07	190	<u>62,000</u>	<u>2,200</u>				1.08	43.9	0.367	16.3	17	BRL	BRL	BRL	70* (benzene)	140* (cresols)	BRL	0.322	BRL	BRL	BRL	BRL	BRL	BRL

Table 2-3b

City of Indianapolis-DPW Historical Sampling Event Results

ESI Environmental, Inc.

4910 West 86th Street

Indianapolis, Marion County, Indiana

	Sample	TPH_CRO	TPH-ERO	TPH-DRO	VOCs	SVOCs	PCBs			To	tal Met	als (mg/	kg)						T	CLP (m	g/L)				
Sample ID	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	As	Ba	Cd	Cr	Pb	Se	Ag	Hg	VOCs (µg/L)	SVOCs (µg/L)	As	Ba	Cd	Cr	Pb	Se	Ag	Hg (µg/L)
Sludge			<u>410,000</u>	<u>120,000</u>			-	-						-					-						
Background	02/12/09		73				-																		
1			37																						
1	04/07/09	1.1	410																						
																							_		
1	04/07/09	0.14	75																						

Notes:

Exceeds IDEM RISC Residential Soil Default Closure Levels

Exceeds IDEM RISC Industrial Soil Default Closure Levels

Exceeds IDEM RISC TPH Residential Soil Non-Default Closure Levels (Migration to Groundwater) - most stringent

Exceeds IDEM RISC TPH Industrial Soil Non-Default Closure Levels (Migration to Groundwater) - most stringent

Exceeds U.S. EPA Residential Soil Regional Screening Levels

Exceeds U.S. EPA Industrial Soil Regional Screening Levels

* - all other constituents BRL

"--" - not analyzed

mg/kg - millgram per kilogram

mg/L - milligram per liter

μg/L - microgram per liter

Ag - silver

As - arsenic

Ba - barium

BDL - below detection limit

BRL - below reporting limit

Cd - cadmium

Cr - chromium

DRO - diesel range organic

ERO - extended range organic

GRO - gasoline range organic

Hg - mercury

ID - identification

Pb - lead

PCB - polychlorinated biphynels

Se - selenium

SVOC - semivolatile organic compound

TCLP - toxicity characteristic leaching procedure

TPH - total petroleum hydrocarbon

VOC - volatile organic compound

Table 2-3c IDEM Historical Sampling Event Results ESI Environmental, Inc. 4910 West 86th Street

				Non-					To	tal Meta	als (mg/	kg)		
Sample ID	Sample Date	TPH-GRO (mg/kg)	TPH-ERO (mg/kg)	Halogenated Organics** (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	As	Ba	Cd	Cr	Pb	Se	Ag	Hg
Soil (LQ4137)	03/16/07	BDL	82000	<u>220000</u>	*0.49 (Eth) 1.5 (Sty) 2.7 (Xyl) 1.8 (Naph)	BDL	3.4	160	0.2	47	64	0.41	1.1	0.21
Soil (LQ4138)	03/17/07	220	370000	<u>800000</u>	*5.1 (Ace) 2.1 (2-But) 3.6 (Eth) 12 (Sty) 0.56 (PCE) 4.9 (Tol) 18 (Xyl) 0.92 (Iso) 4.9 (Naph)	BDL	3	410	0.98	150	130	0.33	3.4	0.54
Soil (LQ4139)	03/17/07	740	240000	NA	*2.7 (MIK) 5.5 (Ace) 7.4 (Ben) 1.1 (2-But) 0.45 (Chloro) 22 (Eth) 1 (Met) 1.4 (Sty) 1.7 (PCE) 89 (Tol) 0.62 (TCE) 100 (Xyl) 1.6 (Iso) 8.4 (Naph)	*440 (2-Met) 300 (Bis)	2.5	230	1.6	65	78	0.46	1.8	0.21

Table 2-3c

IDEM Historical Sampling Event Results

ESI Environmental, Inc. 4910 West 86th Street

				Non-					To	tal Meta	als (mg/	kg)		
Sample ID	Sample Date	TPH-GRO (mg/kg)	TPH-ERO (mg/kg)	Halogenated Organics* (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	As	Ba	Cd	Cr	Pb	Se	Ag	Hg
Soil (LQ4140)	03/17/07	370	330000	<u>800000</u>	*0.74 (Ben) 1.1 (2-But) 8.2 (Eth) 48 (Sty) 1.2 (PCE) 14 (Tol) 37 (Xyl) 1.4 (Iso) 9 (Naph)	BDL	2.9	350	0.61	160	130	0.37	3.8	0.79
Soil (LQ4141)	03/18/07	370	380000	<u>880000</u>	*0.85 (Ben) 1.3 (2-But) 7.9 (Eth) 13 (Sty) 1.8 (PCE) 14 (Tol) 38 (Xyl) 1.6 (Iso) 13 (Naph)	BDL	3.9	410	0.87	130	110	0.43	2.5	0.44
Liquid-Sewer (LQ4142)	03/17/07	3400	450000	BDL	*19 (Ben) 0.8 (Chlorob) 0.86 (Chloro) 1.6 (Cis-1,2-DCE) 71 (Eth) 6.8 (Sty) 15 (PCE) 180 (Tol) 6 (TCE) 310 (Xyl) 15 (Iso) 67 (Naph)	*530 (2-Met) 320 (Bis) 160 (Phen)	0.66	25	0.23	10	22	0.2	BDL	BDL
Sludge-Oil (LQ4145)	03/17/07	BDL	<u>1300000</u>	BDL	BDL	BDL	BDL	5.3	BDL	0.14	BDL	BDL	BDL	BDL

Table 2-3c

IDEM Historical Sampling Event Results

ESI Environmental, Inc.

4910 West 86th Street

Indianapolis, Marion County, Indiana

				Non-					To	tal Met	als (mg/	L)		
Sample ID	Sample Date	TPH-GRO (mg/L)	TPH-ERO (mg/L)	Halogenated Organics** (mg/L)	VOCs (mg/L)	SVOCs (mg/L)	As	Ba	Cd	Cr	Pb	Se	Ag	Hg
Liquid-Creek (LQ4143)	03/19/07	BDL	2	5.1	BDL	BDL	BDL	0.059	BDL	BDL	0.008	BDL	BDL	BDL
Liquid-Other (LQ4144)	03/20/07	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Exceeds IDEM RISC Residential Soil Default Closure Levels

Exceeds IDEM RISC Industrial Soil Default Closure Levels

Exceeds IDEM RISC TPH Residential Soil Non-Default Closure Levels (Migration to Groundwater) - most stringent

Exceeds IDEM RISC TPH Industrial Soil Non-Default Closure Levels (Migration to Groundwater) - most stringent

Exceeds U.S. EPA Residential Soil Regional Screening Levels

Exceeds U.S. EPA Industrial Soil Regional Screening Levels

* - all other constituents BDL

** - client provided material

mg/kg - millgram per kilogram

mg/L - milligram per liter

2-But - 2-butanone

1-Met - 2-methylnaphthalene

Ace - acetone

Ag - silver

As - arsenic

Ba - barium

Ben - benzene

BDL - below detection limit

Bis - bis(2-ethylhexyl)phlatate

Cd - cadmium

Chloro - chloroform

Chlorob - Chlorobenzene

Cis-1,2-DCE - cis-1,2-dichloroethene

Cr - chromium

ERO - extended range organic

Eth - ethylbenzene

GRO - gasoline range organic

Hg - mercury

ID - identification

Iso - isopropylbenzene

Met - methylene chloride

MIK - methyl isobutyl ketone

NA - not analyzed

Naph - naphthalene

Pb - lead

PCE - tetrachloroethane

Phen - phenanthrene

Se - selenium

Sty - styrene

SVOC - semivolatile organic compound

TCE - trichloroethene

Tol - toluene

TPH - total petroleum hydrocarbon

VOC - volatile organic compound

Xvl - xvlene

Table 2-3d

MCHD Historical Sampling Event Results ESI Environmental, Inc.

4910 West 86th Street

Indianapolis, Marion County, Indiana

	Sample	VOC					Total Meta	als (mg/kg)				
Sample ID	Date	(mg/kg)	As	Ba	Cd	Cr	Pb	Cu	Ni	Fe (µg/L)	Zn	Hg
1	03/16/07	BDL	4.0	345	1.1	65.9	96.7	690	60.1	13400	559	0.95
1	03/16/07	BDL	7.5	745	1.9	141	124	1190	107	NA	1020	1.6
ESI - 4910 V	West 86th St	reet, Indianapolis	s, IN									
		*321 (toluene)										
1	03/16/07	222 (xylene)	2.4	43.6	0.52	17.9	36.6	139	27.3	NA	152	0.17
1	03/16/07	BDL	4.3	358	1.0	70.5	112	861	66.8	NA	615	1.2
1	03/16/07	BDL	4.3	407	1.2	80.6	112	783	69.0	NA	604	1.2

Notes:

Exceeds IDEM RISC Residential Soil Default Closure Levels

Exceeds IDEM RISC Industrial Soil Default Closure Levels

Exceeds IDEM RISC TPH Residential Soil Non-Default Closure Levels (Migration to Groundwater) - most stringent

Exceeds IDEM RISC TPH Industrial Soil Non-Default Closure Levels (Migration to Groundwater) - most stringent

Exceeds U.S. EPA Residential Soil Regional Screening Levels

Exceeds U.S. EPA Industrial Soil Regional Screening Levels

* - all other constituents BDL

mg/kg - millgram per kilogram

 $\mu g/L$ - microgram per liter

As - arsenic

Ba - barium

BDL - below detection limit

Cd - cadmium

Cr - chromium

Cu - copper

Fe - iron

Hg - mercury

ID - identification

Ni - nickel

Pb - lead

VOC - volatile organic compound

Zn - zinc

Table 2-3e

ESI Historical Sampling Event Results ESI Environmental, Inc.

4910 West 86th Street

Indianapolis, Marion County, Indiana

	Sample Date	VOC	SVOC	РСВ	Total Metals (mg/L)						TCLP (ppm)										
Sample ID		(μg/L)	(µg/L)	(μg/L)	As	Ba	Cd	Cr	Pb	Se	Ag	Hg	voc	As	Ba	Cd	Cr	Pb	Se	Ag	Hg
Soil																					
Scrapings	03/19/07		<u></u>										BDL	BDL	3.23	BDL	BDL	BDL	BDL	BDL	BDL
	00/00/07	DD.		222	557	557	557	557	557	557	222	557				1	1	1	1		
1	03/22/07	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL									
1	03/22/07	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL									
1	03/22/07	DDL	DDL	DDL	DDL	DDL	DDL	DDL	DDL	DDL	DDL	DDL									
1	03/22/07	BDL	BDL	BDL	BDL	0.23	BDL	BDL	BDL	BDL	BDL	BDL									
1	03/22/07	BDL	BDL	BDL	0.014	0.18	BDL	BDL	BDL	BDL	BDL	BDL									
				I													•		•		
1	03/22/07	BDL	BDL	BDL	0.012	0.26	BDL	BDL	BDL	BDL	BDL	BDL									
1	02/22/07	BDL	BDL	BDL	0.014	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Ī	Ī	Ī	l	I	l	I	Ī	1
1	03/22/07	DDL	DDL_	DDL	0.014	DDL	BDL	DDL	DDL	BDL	DDL	DDL									
1	03/22/07	BDL	BDL	BDL	0.016	0.3	BDL	BDL	BDL	BDL	BDL	BDL									
																<u> </u>	1	<u> </u>	1		
1	03/22/07	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL									

Notes:

Exceeds U.S. EPA Maximum Contaminant Levels

"--" - not analyzed

mg/L - milligram per liter

μg/L - microgram per liter

Ag - silver

As - arsenic

Ba - barium

BDL - below detection limit

Cd - cadmium

Cr - chromium

Hg - mercury

ID - identification

Pb - lead

PCB - polychlorinated biphynels

ppm - part per million

Se - selenium

SVOC - semivolatile organic compound

TCLP - toxicity characteristic leaching procedure

VOC - volatile organic compound

1184-2A-AHYY

Table 2-3f Keramida Historical Sampling Event Results ESI Environmental, Inc. 4910 West 86th Street

a i in	Sample	PCE	TPH-GRO	TPH-ERO	TPH-DRO	BTEX	Sample	TPH-ERO	
Sample ID	Date 1	(µg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg)	Date 2	(mg/kg)	
			<u> </u>				•		
1	04/17/07	BDL	16	800	NA	NA	05/21/07	420	
2	04/17/07	BDL	BDL	730	NA	NA	05/21/07	230	
3	04/17/07	BDL	BDL	430	NA	NA	N	A	
4	04/17/07	BDL	BDL	650	NA	NA	05/21/07	420	
5	04/17/07	BDL	BDL	280	NA	NA	N	A	
6	04/17/07	BDL	BDL	340	NA	NA	N	A	
1	04/18/07	BDL	BDL	610	NA	NA	N	A	
2	04/18/07	BDL	BDL	1200	NA	NA	05/18/07	210	
1	04/18/07	BDL	BDL	440	NA	NA	05/18/07	250	
2	04/18/07	BDL	BDL	200	NA	NA	N	A	
1	04/18/07	BDL	BDL	460	NA	NA	N		
2	04/18/07	BDL	BDL	980	NA	NA	05/18/07	180	
1	04/18/07	BDL	BDL	2300	NA	NA	N		
2	04/18/07	BDL	BDL	2200	NA	NA	05/18/07	110	
1	04/18/07	BDL	BDL	1300	NA	NA	N	A	
2	04/18/07	BDL	BDL	2900	NA	NA	05/18/07	160	
3	04/18/07	BDL	BDL	1200	NA	NA	N		
4	04/18/07	BDL	BDL	500	NA	NA	N	A	
1	04/17/07	BDL	BDL	100	NA	NA	N		
2	04/17/07	BDL	BDL	86	NA	NA	05/21/07	39	
3	04/17/07	BDL	BDL	120	NA	NA	N		
4	04/17/07	BDL	BDL	190	NA	NA	N		
5	04/17/07	BDL	BDL	460	NA	NA	N	A	
			_						
Background	05/08/07	NA	NA	49	NA	NA	N	A	
			_		-				
1	04/19/07	BDL	BDL	190	NA	NA	N		
2	04/19/07	BDL	BDL	88	NA	NA	N	A	
			•						
Background	05/08/07	NA	NA	140	NA	NA	N	A	
			1						
1	04/19/07	BDL	BDL	340	NA	NA	N	A	

Table 2-3f Keramida Historical Sampling Event Results ESI Environmental, Inc. 4910 West 86th Street

Comple ID	Sample	PCE	TPH-GRO	TPH-ERO	TPH-DRO	BTEX	Sample	TPH-ERO
Sample ID	Date 1	(µg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg)	Date 2	(mg/kg)
1	04/18/07	BDL	BDL	160	NA	NA	N	A
2	04/18/07	BDL	BDL	85	NA	NA	N	A
3	04/18/07	BDL	BDL	220	NA	NA	N	A
4	04/18/07	BDL	BDL	120	NA	NA	N	A
5	04/18/07	BDL	BDL	210	NA	NA	N	A
6	04/18/07	BDL	BDL	420	NA	NA	N	A
7	04/18/07	BDL	BDL	350	NA	NA	N	
8	04/18/07	BDL	BDL	490	NA	NA	N	A
9	04/19/07	BDL	BDL	510	NA	NA	N	A
10	04/19/07	BDL	BDL	110	NA	NA	N	A
11	04/19/07	BDL	BDL	450	NA	NA	N	A
			-	-	-			
1	04/20/07	BDL	BDL	340	NA	NA	N	A
2	04/20/07	BDL	BDL	560	NA	NA	N	A
3	04/20/07	BDL	BDL	570	NA	NA	N	A
4	04/20/07	BDL	BDL	280	NA	NA	N	A
5	04/20/07	BDL	BDL	170	NA	NA	N	A
6	04/20/07	BDL	BDL	90	NA	NA	N	A
7	04/20/07	BDL	BDL	34	NA	NA	N	A
1	04/19/07	BDL	BDL	170	NA	NA	N	Ā
2	04/19/07	BDL	BDL	330	NA	NA	N	A
3	04/20/07	BDL	BDL	190	NA	NA	N	A
1	04/19/07	0.011	BDL	35	NA	NA	N	A
7	04/20/07	0.0060	13	120	NA	NA	N	A
			-					
1	04/23/07	BDL	BDL	280	NA	NA	N	A
			•					
1	04/23/07	BDL	BDL	460	NA	NA	N	A
1	04/23/07	BDL	BDL	1100	NA	NA	N	A
1	04/23/07	BDL	BDL	170	NA	NA	N	A
			-	-	-			
1	04/23/07	BDL	BDL	420	NA	NA	N	A
1	04/23/07	BDL	BDL	71	NA	NA	N	A
2	04/23/07	BDL	BDL	270	NA	NA	N	A
1	04/23/07	BDL	BDL	860	NA	NA	N	A
2	05/01/07	BDL	BDL	89	NA	NA	N	A
3	05/01/07	BDL	BDL	100	NA	NA	N	A
4	05/01/07	BDL	BDL	23	NA	NA	N	A

Table 2-3f

Keramida Historical Sampling Event Results ESI Environmental, Inc.

4910 West 86th Street

	Sample	PCE	TPH_CRO	TPH-FRO	TPH-DRO	BTEX	Sample	TPH-ERO
Sample ID	Date 1	(μg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg)	Date 2	(mg/kg)
	Date 1	(µg/Ng)	(mg/kg)	(IIIg/Kg)	(mg/kg)	(IIIg)	Date 2	(mg/kg)
1	04/23/07	BDL -	BDL	250	NA	NA	N	Δ
2	04/23/07	BDL	BDL	560	NA	NA	N	
3	04/23/07	BDL	BDL	470	NA	NA NA		A A
4	04/23/07	BDL	BDL	410	NA	NA		A
Riverside Golf C		DDL	BDL	410	1471	11/11	1	11
RSGC10-1	04/24/07	NA	BDL	74	NA	NA	N	Α
RSGC10-2	04/24/07	NA	BDL	77	NA	NA		Ā
RSGC12-2-1	04/24/07	NA	BDL	270	NA	NA		Ā
RSGC12-2-2	04/24/07	NA	14	140	NA	NA		A
RSGC12-2-3	04/24/07	NA	BDL	73	NA	NA		A
RSGC12-2-4	04/24/07	NA	BDL	290	NA	NA		A
RSGC12-2-5	04/24/07	NA	BDL	94	NA	NA		A
RSGC12-3SW	04/24/07	NA	BDL	73	NA	NA		Ā
RSGC12-4N	04/24/07	NA	BDL	290	NA	NA		Ā
RSGC12-5W	04/24/07	NA	BDL	94	NA	NA		A
RSGC13-1E	04/24/07	NA	BDL	69	NA	NA		A
RSGC13-2S	04/24/07	NA	BDL	75	NA	NA	N	A
RSGC13-3N	04/24/07	NA	BDL	570	NA	NA	N	A
RSGC13-4-1	04/24/07	NA	BDL	56	NA	NA	N	A
Coffin Golf Cour	se	•	•					
CGC11-1	05/01/07	NA	BDL	39	NA	NA	N	Α
CGC11-2	05/01/07	NA	BDL	51	NA	NA	N	Α
CGC11-3	05/01/07	NA	BDL	56	NA	NA	N	A
CGC11-4	05/01/07	NA	BDL	27	NA	NA	N	Α
CGC11-5	05/01/07	NA	BDL	BDL	NA	NA	N	A
CGC11-6	05/01/07	NA	BDL	130	NA	NA	N	A
CGC11-7	05/01/07	NA	BDL	18	NA	NA	N	A
CGC11-8	05/01/07	NA	BDL	54	NA	NA	N	A
CGC11-9	05/01/07	NA	BDL	36	NA	NA	N	A
CGC11-10	05/01/07	NA	BDL	26	NA	NA	N	A
CGC11-11	05/01/07	NA	BDL	BDL	NA	NA	N	A
CGC11-12	05/01/07	NA	BDL	BDL	NA	NA	N	A
CGC11-13	05/01/07	NA	BDL	440	NA	NA	N	A
CGC11-14	05/02/07	NA	BDL	71	NA	NA	N	Α
CGC11-15	05/02/07	NA	BDL	130	NA	NA		A
CGC11-16	05/02/07	NA	BDL	32	NA	NA		Α
CGC11-17	05/02/07	NA	BDL	64	NA	NA		Α
CGC17-18	05/02/07	NA	BDL	BDL	NA	NA		Α
CGC10-19	05/02/07	NA	BDL	300	NA	NA		A
CGC10-20	05/02/07	NA	BDL	47	NA	NA	N	A
Unknown Locati		ī						
ET-1	04/24/07	NA	BDL	BDL	NA	NA	N	
EC-1	04/24/07	NA	BDL	13	NA	NA	NA	
WC1-1	04/24/07	NA	BDL	15	NA	NA	NA	
WC1-2	04/24/07	NA	BDL	27	NA	NA	NA	
W2-1	04/24/07	NA	BDL	22	NA	NA		A
W2-2	04/24/07	NA	BDL	74	NA	NA	N	A

Table 2-3f

Keramida Historical Sampling Event Results ESI Environmental, Inc.

4910 West 86th Street

Indianapolis, Marion County, Indiana

Sample ID	Sample Date 1	PCE (µg/kg)	TPH-GRO (mg/kg)	TPH-ERO (mg/kg)	TPH-DRO (mg/kg)	BTEX (mg)	Sample Date 2	TPH-ERO (mg/kg)
Product Analysis	-Sewer							
AB33305		17.1	<u>16437</u>	<u> 38257</u>	NA	NA	N	A
Product Analysis	-East Million							
AB33306		14	<u>25824</u>	<u>41651</u>	NA	NA	N	A
							_	
1	06/07/07	NA	NA	NA	NA	BDL	N	A
2	06/07/07	NA	NA	NA	NA	BDL	N	A
3	06/07/07	BDL	BDL	76	BDL	NA	N	A

Notes:

Exceeds IDEM RISC TPH Residential Soil Non-Default Closure Levels (Migration to Groundwater) - most stringent Exceeds IDEM RISC TPH Industrial Soil Non-Default Closure Levels (Migration to Groundwater) - most stringent

"--" - not available

mg - milligram

mg/kg - millgram per kilogram μg/kg - microgram per kilogram

BDL - below detection limit

BTEX - bezene, toluene, ethylbenzene, xylene

ERO - extended range organic

GRO - gasoline range organic

ID - identification NA - not analyzed NL - not listed

PCE - tetrachloroethane

TPH - total petroleum hydrocarbon

Table 3-1

HazCat Sampling Results

ESI Environmental, Inc.

4910 West 86th Street

Indianapolis, Marion County, Indiana

				No	tes	Additiona	al Analysis
Tank Location	Tank ID	Date	HazCat Performed	Possible Chlorines	Possible Metals	РСВ	TCLP Metal
J	West	10/9/2010	X			X	X
J	East	10/9/2010	X			X	X
D	North	10/9/2010	X				
D	South	10/9-12/10	X	X	X	X	X
Tank -		10/0 15/10					
East of Building OO		10/8-12/10	X	X	X	X	X
F	F8	10/8-12/10	X	X	X	X	X
F F	F9	10/8-12/10	X	X	X	X	X
	F7	10/8-12/10	X	X	X	X	X
Q	52SP01B	10/8/2010	X	X	X		
BB	55TK12	10/8/2010	X				
BB	55TK13	10/8/2010	X				
BB BB	55TK14	10/8/2010	X				
BB Tanker -	55TK15	10/8/2010	X				
East of Building II	D <i>5</i>	10/0/2010					
Tanker-	R5	10/9/2010	X				
Southeast corner of							
	411	10/0/2010					
property Tanker-	411	10/9/2010	X				
South corner of	ļ						
	2244	10/0/2010					
property Tanker-	3344	10/9/2010	X				
	5	10/0/2010					
East of Buidling II Tanker-	5	10/9/2010	X				
South of MM		10/9/2010					
KK		10/8/2010 10/8/2010	X				
K	6	10/8/2010	X				
Roll-off-	0	10/8/2010	X				
Northeast of Building	ļ						
OO OO	4347	10/8/2010	X				
L	7	10/8/2010	X				
FF	21	10/8/2010	X				
FF	22	10/8/2010	X				
FF	23	10/8/2010	X				
FF	24	10/8/2010	X				
EE	A	10/8/2010	X				
EE	В	10/8/2010	X				
DD		10/8/2010	X				
GG	41	10/8/2010	X				
GG	46	10/8/2010	X		X		
GG	42	10/8/2010	X		X		
GG	45	10/8/2010	X		X		
Y	1	10/8/2010	X		-		†
Y	2	10/8/2010	X				†
R		10/8/2010	X				
AA		10/8/2010	X				
Н		10/8/2010	X				

Notes:

HazCat - hazard catergorization

ID - identification

PCB - polychlorinated biphenyls

TCLP - toxicity characteristic leaching procedure

APPENDIX A PHOTOGRAPHIC DOCUMENTATION



Photograph No.: 1 Date: 9/1/10

Direction: Northwest **Photographer:** Marcus Muccianti

Subject: Oil Storage Tank (designated "A" on Figure 2-1)



Site: ESI Environmental, Inc. Site Assessment

Photograph No.: 2 Date: 9/1/10

Direction: Southwest **Photographer:** Marcus Muccianti

Subject: Secondary Containment for Oil Storage Tank (designated "A" on Figure 2-1)



Photograph No.: 3 Date: 9/1/10

Direction: North **Photographer:** Marcus Muccianti

Subject: Unloading Building (designated "II" on Figure 2-1)



Site: ESI Environmental, Inc. Site Assessment

Photograph No.: 4 Date: 9/1/10

Direction: Northwest **Photographer:** Marcus Muccianti

Subject: Primary Separator (designated "D" on Figure 2-1)



Photograph No.: 5 Date: 9/1/10

Direction: Northwest **Photographer:** Marcus Muccianti

Subject: Off Spec Oil Storage Frac Tanks (designated "F" on Figure 2-1)



Site: ESI Environmental, Inc. Site Assessment

Photograph No.: 6 Date: 9/1/10

Direction: Northeast Photographer: Marcus Muccianti

Subject: Auxiliary Separator (designated "G" on Figure 2-1)



Photograph No.: 7 Date: 9/1/10

Direction: North **Photographer:** Marcus Muccianti **Subject:** Wastewater Containment Area (located between designations "J" and "I" on Figure 2-

1)



Site: ESI Environmental, Inc. Site Assessment

Photograph No.: 8 Date: 9/1/10

Direction: Southwest **Photographer:** Marcus Muccianti **Subject:** API Oil Water Separator (designated "Q" on Figure 2-1) with Large Air Stripper

(designated "KK" on Figure 2-1) beyond



Photograph No.: 9 Date: 9/1/10

Direction: Southeast **Photographer:** Marcus Muccianti

Subject: Dehydration Building (designated "NN" on Figure 2-1)



Site: ESI Environmental, Inc. Site Assessment

Photograph No.: 10 Date: 9/1/10

Direction: East **Photographer:** Marcus Muccianti

Subject: Off Spec Oil Storage Tanks (designated "GG" on Figure 2-1)



Photograph No.: 11 Date: 9/1/10

Direction: Southeast **Photographer:** Marcus Muccianti

Subject: API Oil Water Separator (designated "Q" on Figure 2-1)



Site: ESI Environmental, Inc. Site Assessment

Photograph No.: 12 Date: 9/1/10

Direction: East **Photographer:** Marcus Muccianti **Subject:** Oil Storage Tanks (designated "BB" on Figure 2-1) with Off Spec Oil Storage Tanks

(designated "GG" on Figure 2-1) beyond

APPENDIX B HAZCAT SAMPLING LOGS



Vaste Stream	Container No.
	H

DRUM/CONTAINER SAMPLING LOG

Bottom	Middle	Layer						Condition:	Field Screening:	Waste Volume:	Total Volume:	Type:		Date:	
	J.	Water Sol.	Abbrev	20	3	restricted delication and a second and delication and the second		Poor			85 85	Drum		8-8-10	
ene que en		Hex. Sol.	lations: OP	Bottom	Middle	Layer	s i rieffit , sakanna magamin rief angamin rief angamin sakanna sakanna sakanna sakanna sakanna sakanna sakann	q	OVA/HNu	100%	<u>ca</u>	žΒ			
erene en	The second secon	React	Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL **Hazard Categorization Testing Results**		FF 67864	Color	and a ground distribution of the contract of t	Fair		75%	65 cal	Vat	DRUM/COI	Time:	
	Ô	РH	CLR = Clear Pzard Cate	And the state of t			DRUM/CO			50%	30 ca	무	VTAINER II	are constitution to a special constitution to the special	
	HANDER - A COMMUNICATION OF THE WORK OF THE PROPERTY OF THE PR	Per.	CLR = Clear CDY = Cloudy LIQ = Liquid Hazard Categorization Testing Results		CUR	Clarity	DRUM/CONTAINER CONTENTS	Good	%O ₂	25%	1003-11	Tank	DRUM/CONTAINER INFORMATION (circle all that apply)	positiviti esta spisia anticidi immagina primita providente dell'	
	"Valencement and a second and a	Oxid.	ty LIQ=Liqu Asting Resul		book C	Physical State	ONTENTS	The Lates of the Control of the Cont	Red	Empty	10gal 5gal Other		N (circle all		
V () () () () () () () () () () () () ()	No tost		id SOL = Solid					And an organization of the Anna Anna Anna Anna Anna Anna Anna Ann	3	Other	7		that apply)		() () () () () () () () () ()
		Sulf.	olid SDG = Sludge	ia m filolocus anazono migraja a mara a aprili polita migraja del primi del primi del primi del primi del primi		% of Total Volume		The state of the s	pΗ		Closed-top Other:				7 C C
THE STREET WAS STREET,	TO EXPRESSION OF THE PROPERTY	Ω	udge	ga (Blaci) yildinga dharaba ah canasana	No conditional the relations and discounted the comments of th	ume		Transferon Perina (Territo) in agreem.			At the selected of the selecte			- Marine marketine de de la companya	APPEAR AND AND ASSESSMENT SECURIFICATION OF THE PROPERTY OF TH
Addition of the Administration of the Admini	American control of the property of the control of	Flam.											Jo k	The second secon	PROPERTY OF THE PROPERTY OF TH

Analyst.



Container No. MA Same

MICONTAINER SAMPLING LOG	
ORUM/	•

Samplers:	
Location: $\pm vcly$	Time:
Site Name: ES/	Date: 16-8-10

DRUM/CONTAINER INFORMATION (circle all that apply)

Closed-top Other. Other
Tank Poly-lined Open-top 10gal 5gal Other. 25% Empty %O ₂ Red. M6
Pit Fiber 30 gal 50% Good
Vat Polv 65 gal 75%
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

	200	Ciamy	Fnysical state	- % of lotal volume
Top	× 60002	C / S		d debt of the control
Middle		A CONTRACTOR CONTRACTO	Andronomies and Mades and Andronomies of Mades and Andronomies of Andronomies and Andronomies	- Vall II (April III 2) на випровено україни принцеру в прикактивникови урганци петритори петритори по даржению принцеру.
Bottom		And the second control commence of control con	ANTO ANTO ANTO ANTO ANTO ANTO ANTO ANTO	e desprise a desprise desprise de la regional de la

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

A series Transpose (and the second se			Ë	Hazard Categoriza	nazard Categorization Testing Results	sting Kesul				
Layer	Water Sol.	Kex. Sol.	React.	ጜ	Per.	. Oxld.	N C	Sulf.	Sulf. CI Flam.	Fig.
Top	- Propaga	V	Happy parties on the control of the	Account of the control of the contro		Apparent of the control of the contr	Annual of the control	And the second s	The angle of the Charles of the Char	- ODDANIA A TO THE
Middle				Para Communication and proposed analysis of the property of the communication of the communic	eranovenija prvi, vojevi sa je jedevinama živi vilanama živi izvija jed	O TOTAL OF A DESCRIPTION OF A DESCRIPTIO	MATERIAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL SE	CONTRACTOR		the addition of the content of the c
Bottom					All the sign of this case is the case of t	A Print of Sprinter at New York Printers and Associated Sprinters and A	2000 State Option Page Institute Control of Vision Annual State Option State Option Control of Vision Annual State Option (Vision Annual State Option			And commenced control of the same with the same control on the same control on the same control of the sam

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Waste Stream	Container No.	
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DRUM/CONTAINER SAMPLING LOG

Solubility Abbreviations: S = Soluble	Middle Bottom	Water Hex. React. pH Per. Oxid. CN	ns: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid	DRUM/CONTAINER CONTENTS Clarity Physical State	ruction: Steel Polv Fiber Volume: 85 gal 65 gal 30 gal 9 Volume: 100% 75% 50% Screening: OVA/HNu tion: Poor Fair Good	DRUM/CONTAINER INFORMATION (circle all that apply) Type: Drum Vat Pit Tank	Site Name: Location: Location: Location: Location: Samplers:
Lighter IH = Insoluble, Heavier No Reaction		Sulf. CI	SDG = Sludge	% of Total Volume)ther.		\
avier		Flam.					



/ X	
Container No.	Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Samplers: RG	
Location: Indy	Time:
Site Name: ES!	Date: (0 - 8 - 78

DRUM/CONTAINER INFORMATION (circle all that apply)

-top Closed-top Other. Other: Other Red. Meter
Tank Poly-lined Open-top 10gal 5gal Other: 25% Empty Red. Me
Pit Fiber 30 gal 50% Good
Vat Polv 65 gal 75%
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

Layer	Color	Clarity	Physical State	% of Total Volume
Top	が必ずで入	000	The second of the second secon	A CONTRACTOR OF THE PROPERTY O
Middle		The second control of the control of	The second secon	And the state of t
Bottom			en e	en e
promotion that the second seco	A		And the second s	ments of the state

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

ರ Sulf. S Hazard Categorization Testing Results React. Sol. Sol. Water Sol.

Middle Bottom

Layer

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suits: + = Positive Result	- = Negative Result
Fest Re	esuits: + = Positive Result

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Analyst:	



Container No. X Sax How Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Analyst Luke	Solub	Layer V Top Middle Bottom		Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:	Site Name:E
Ke 10	Solubility Abbreviations: S = Soluble Reactivity Abbre Te	Water Hex. Sol. Sol.	Layer Color Top Dk 8602 Middle Bottom Abbreviations: OPQ = Opaque	Drum Steel 85 gal 100% OVA/HNu Poor	ES!
		React.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Vat Polv 65 gal 75%	Location:
	e I = Insoluble PS = Partially s reviations: A = Air Reactive W = Test Results: + = Positive Result	Per. Oxid.	DRUM/CONTAINER CONTENTS Clarity Physica □ ▷ (≤▷ (≤▷ ()) CR = Clear CDY = Cloudy LiQ = Lice	Pit Tank Fiber Poly-1 30 gal 10gal 50% 25% Good	n: Twd y
	ons: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble. Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = I Test Results: + = Positive Result - = Negative Result	Testing Results Oxid. CN	CLR = Clear CDY = Cloudy LIQ = Liquid SOL	ined Open-top 5gal Other: Empty Red. Me	Sam
e: 10-9-10	a, Lighter ∃H = Insoluble, Heavier No Reaction	Suif	% of Total Volume	Closed-top Other: Other PH	nplers:
	le, Heavier	Cl Flam.	ë		



Container No. Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

	Approximation of the second
Samplers: 🖄	named in principal and the second sec
Location: Findy	Time:
Site Name: ES!	9/-8-0/
Site N	Date:

DRUM/CONTAINER INFORMATION (circle all that apply)

other.
Closed-top Other.
Tank Poly-lined Open-top Clo: 10gal 5gal Other: 25% Empty Oth
Good
Pit Fiber 30 gal 50% Fair
Vat Polv 65 gal 75%
Drum Steel 85 gal 100% OVA/HNL
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

Layer	Color	Clarity	Physical State	% of Total Volume
Top	Ţ.	Andread Communication (American)	overs which was endered the capture of the contract of the con	омости и менен кактара предоставности предоста
Middle		read, conference against a security of contract of against a security of the s	AND THE PROPERTY OF THE PROPER	ette sak dade mer för socket mer mer proprinter mytte proprinter (sjölmaga) och (1909), a samtillann unkannakten för mer
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Abbreviations: OPC	= Opaque CLR	= Clear CDY = Cloudy	/ LIQ = Liquid SOI	Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

and with the same	Programme or programme or control designation and the	Charles on the Charles of the Control of the Contro	Stronger of the state of the stronger of the s	שלשות השובה	מוולמנוסוו וגי	Hatalu valegulizationi lestilig nesulis	2	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM		
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		Ö	UM/CONT.	CONTAINER SAMPLING	DRUM/CONTAINER SAMPLING LOG	ā	v v ao (a) Cu cai ii	I COLL	tia de la constante de estaco de la constante
Site Name: ES	5 /	Loca	Location:	INDY	Propping the proposed management of the constant of the consta	Samplers:	Ro	FERNANCIA (1881) MINISTRUCTURA, CANONIA PARENCIA, CANONIA CANONIA MINISTRUCTURA (CANONIA CANONIA CANON	energia (akaya) energia (akay
Date:	0/- 8-0	Time:					November and communication of the communication of	SS Maryalis de Sala de maior de marganismo de marganismo en conspormo de la composição de composições de compo	The a way of the control of the cont
		DRUM/CON	ITAINER IN	FORMATIO	DRUM/CONTAINER INFORMATION (circle all that apply)	that apply)			
Type:	Drum	Vat	Pit	Tank					
Construction:	Steel 85 cal	Polv 65 gal	Siber Siber	Poly-lin	ě	Closed-top Other:	op Other:	Martin and a state of the state	
Waste Volume:	100%	75%	50%	25%	Empty	Other Other			
Condition:	Poor	Fair	o O	Good		· · · · · · · · · · · · · · · · · · ·	Abrama or	of Anna constraints and an anna constraints and the	
			DRUM/CO	DRUM/CONTAINER CONTENTS	ONTENTS				٠
	Layer	Color	Married and the second desirable and the second	Clarity	Physical State	State	% of Total Volume		
	Middle	2007		210	. 6.76		AMAZINENIA OLOMBONIA PARAMININA MARIANINA MARI	A .	K194 50110
	Bottom	NOVIN W		50		0			•
	Abbreviations: OPQ = Opaque	Q = Opaque (CLR = Clear	CDY = Cloudy	ly LIQ = Liquid	SOL =	Solid SDG = Sludge	ludge	
Layer Wa	Water Hex.	React	Hq	Per.	pH Per Oxid.	N 200 - State of the State of t	Sulf.	<u>Cl</u>	Flam.
Top		especiare differentiate des continueles accessionates a revisar e de servicio de la continue de		elektrisa interestentia elektrisa eta elektrisa eta elektrisa eta elektrisa eta elektrisa eta eta eta eta eta e	The second secon	and the second s	en er	On the state of th	**************************************
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Bottom		- Company of the Comp	Ç.				gganderon.	and the second s	- Care - Section Control of the Cont
Solubili	Solubility Abbreviations: S = Soluble Reactivity Abbre	ns: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = No Reaction Test Results: + = Positive Result - = Negative Result	le I = Insoluble PS = Partially S reviations: A = Air Reactive W = Test Results: + = Positive Result	S = Partially S eactive W = sitive Result	PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier r Reactive W = Water Reactive N = No Reaction Positive Result - = Negative Result	nsoluble, Ligi /e N = No R Result	nter IH = inso Reaction	oluble, Heavis	UT .
Analyst:	フススネ					Date:	. 10	7 - 17	S. Sandari



Container No. <u>CK1 Sin He Andolle</u> Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Samplers:	
Location: I waly	Time:
Site Name:	Date: 10 -8-70

DRUM/CONTAINER INFORMATION (circle all that apply)

Closed-top Other. Other eter pH
Tank Poly-lined Open-top 10gal 5gal Other: 25% Empty %O ₂ Red. M
Pit Fiber 30 gal 50% Good
Vat Polv 65 gal 75%
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

Layer	Color		Clarity	Physical State	% of Total Volume	me
Top				sociamente o samo per escha associatores e escris altrema escris commendente amenoria. Formación	en une en ante capación macanamental	And work in the colours decided
Middle	о ф. комуниција изгорација порадинија изгорација изгорација изгорација изгорација изгорација изгорација изгора	Alle Agrico and de Alle Agrico and de Agr	Alle California de California	ynd de Politiciaeur - Fernand karikitade da de 1976 anha printette ann adeathac maggarate manggroom	Najmin of 1-1000m as NN - equate (Alberta Alberta Barrer or Harmanol magazinament apad majesta) data od 1800.	and the same of th
Bottom	errete der den det errete de	THE CONTRACT OF THE CONTRACT O	promote as participated and all the Confedence and	<u>New Proposition (Company of Company Company)</u>	Officials and finance (Altrinois), and construction of the desire and the second process of the second process	And the second second second second
Abbreviations: OPC	2 = Opaque C	LR = Clear	CDY = Cloudy	LIQ = Liquid SO	Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge	ndge

Hazard Categorization Testing Results

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Layer	Water Sol.	Sol.	React.	Ŧ	Per.	Oxld.	Oxid.	Sulf.	Ö	Flam.
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Bottom			Construction of the Constr	Andrewsky propriet in the contract of the cont	The second secon	-		mandrament is distributed and a second secon	essistemmigdiffersjyspersspanspagningsparter entrangentietheiteleitheitheitheitheitheitheitheitheitheith	mandenes de servició de la companya
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Container No. 676 Sections!

DRUM/CONTAINER SAMPLING LOG

Bottom	Middle	Top	Layer								Condition:	Field Screening:	Vocal Volume:	Construction:	Type.		Date:/_0/8	Olice Hallies
Contraction of the Contraction o	5	IL	Water Sol.	anders a strange and the all of the strange and strang	Abbreviat	Bottom	Middle	Тор					85 ga	Steel			01/18	
5	H		Sol.	eriede, no est de l'action actions est de la communication de la c	ions: OPQ =	om	The second secon	anne de la companya d	(er		1170-1170-1170-1170-1170-1170-1170-1170	Ž				D.		
Completed annual control and control and control and control annual control annua	. Tableson,	Et benederland.	React	Ta:	Opaque C	RIACK	5 27	グログログ	Color		Fa.	376	65 gal	Polv	บุ	RUM/CON	Time:	
Computational principles	6	And Fill, white are controping grant control, and the file transcontaining and the control and	ř	ard Catego	LR = Clear		0		DRUM/CO	(മ	20%	30 gal	Fiber	*	TAINER IN		- production
- Additional Control of the Control	*dhor	News decision in the second	Per.	orization Te	CDY = Cloud	20	\times 1	020	DRUM/CONTAINER CONTENTS Clarity Physics	\$	Good %C2	% 0%	10gal	Poly-lir	1	CORMATIO	те и при при при при при при при при при п	1
	Management		Oxld.	Hazard Categorization Testing Results	Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SO		· · · · ·	1.1.2	ONTENTS Physical State		Nec	Empty	5gal Other:	Poly-lined Open-top		DRUM/CONTAINER INFORMATION (circle all that a		***************************************
Barrelly Control 1000000000000000000000000000000000000	- Control of the Cont	- publication and the control of the	CN	its	s= 10s pir		A CONTRACTOR OF THE PARTY OF TH	J Clare			Ked. Weter	Other	8			that apply)	•	- Sampiers:
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The state of the s		and the operations are proposed and the control of	<u> </u>		Sludge	A Company of the last of the l	- unbline construence proportion in the construence property construence	ACCUSED THE CONTRACT OF THE CO	THE PARTY NAMED TO THE PARTY NAM		- CHARLES AND DESCRIPTION OF THE PROPERTY OF T		A the second of the second				Profile - Profile propostypowanterostypowa	And the conference of the conf
SOUTH AND AND ADDRESS OF THE ADDRESS	State of the second of the sec	And the state of t	Flam.	-														Majidas (Alian Ophicalaus vois Polassadors aberitus jor itus)



Container No. Ga Nowth Michalle Waste Stream

DRUM/CONTAINER SAMPLING LOG

GENERAL INFORMATION

Samplers: P2	
tion: I ady	
Site Name: Locat	Date: 10 10 10 Time.

DRUM/CONTAINER INFORMATION (circle all that apply)

other: Other Other Red. Meter
Tank Poly-lined Open-top C 10gal 5gal Other 25% Empty C
Pit Fiber 30 gal 50% G
Vat Polv 65 gal 75% u
Drum Steel 85 gal 100% OVA/HN Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

	19/6/	Color	Clarity	Physical State	% of Total Volume
	Top	スペイシン	2000	The state of the s	Accompanies of the Control of the Co
	Middle	And the second of the second o	THE REAL PROPERTY AND ADDRESS OF THE PROPERTY	Constitution of the consti	(2)
	Bottom	16 16 11 1			терического Ададиналистия в регистрация в серения подативного в податив
أبع	Abbroubtions: ODC		Abbraudion: OD - C-real of Carlo	70 / 7	

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

Layer Water Sol. React. Sol. pH Per. Oxld. CN Sulf. CI Fiam. Middle Bottom S T C T C Fiam.					-		
Water Hex. React. pH Per. Oxid. CN Sulf. Sol. S		E	<u>:</u>	Madeiranies et Australies retirent aller alser algebreichen gestellt en der state als sent perspektigt	Andrewson and the second of th	The second secon	1
Water Hex. React. pH Per. Oxld. CN Sol. Sol.		ļ.	•	Problem (Andrée y 1904) and Alberton in Systems control (1905) (Andrée agreement d'un	Palar Sc. 1999 (r. 1994) (d. 1994) (The section of the se	L-W-THENDERSON
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Water Hex. React. pH Per. Sol. S	Months and a second sec	_		100000			Chlemment, v.
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Layer Top Middle Bottom	1860101	water	<u></u>	1 1	The state of the s	and the second s	more and the second
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Waste Stream	Container	
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DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Solubility A	Layer Water Sol. Top \(\frac{1}{2} \cdot \cdot \) Middle Bottom	A t	Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:	Site Name: <u>ESI</u> Date: 10-8-10
Solubility Abbreviations: S = Soluble Reactivity Abbre Te	Hex. Sol.	Layer Top Middle Bottom breviations: OP	Drum Steel 85 gal 100% OVA/HNu Poor	0
Pos: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, L Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = Nc Test Results: + = Positive Result - = Negative Result	React.	Layer Color Clarity Physical State	Vat Pit Tank Polv Fiber Poly-lined Open-top Close 65 gal 30 gal 10gal 5gal Other: 75% 50% 25% Empty Other Fair Good %O2 Red. Meter	Location:
I = Insoluble PS viations: A = Air Re st Results: + = Pos	pH	DRUM/COA	TAINER INF Pit Fiber 30 gal 50% Go	tion:
= Partially Sc active W = v itive Result	Per.	Clarity Physica Clarity Physica CPC CPC CPC CIGNITY Physica CPC CIGNITY Physica CIG	NFORMATION Tank Poly-lin 10gal 25% Good %O2	dy
e I = Insoluble PS = Partially Soluble IL = Insoluble reviations: A = Air Reactive W = Water Reactive N : Test Results: + = Positive Result - = Negative Result	Hazard Categorization Testing Results pH Per. Oxld.	Physical State	#ATION (circle all the Tank Tank Poly-lined Open-top 10gal 5gal Other: 25% Empty %O2 Red. N	
soluble, Light e N = No Re Result	CN	တ္က	-top Closed-to Other: Other Red. Meter	Samplers:
PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier ir Reactive W = Water Reactive N = No Reaction Positive Result -= Negative Result Date:	Sulf.	% of Total Volume	d-top Other	1
lubie, Heavie	Q	<i>ume</i>		
	Flam.			



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Container No.	Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

	Samplers: R G	
NO SECOLE LIGHT	Location: $IRCIY$	rime:
	Site Name;	Date: 10/8//0 Tr

DRUM/CONTAINER INFORMATION (circle all that apply)

Closed-top Other. Other Meter pH
Tank Poly-lined Open-top Closed 10gal 5gal Other: 25% Empty Other %O ₂
Pit Fiber 30 gal 50% Good
Vat Polv 65 gal 75%
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

	Will Schill	10000			
	% of Total Volume	of the work of the contract of	man of the contraction of the desire of the contraction of the contrac	Mention and the depth of the contract of the c	
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Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

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Hazard Cafegorization Testing Results	THE PARTY OF STREET, SAN THE PARTY SAN THE PARTY SAN THE PARTY.	
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		Sol.	So.						:	5	<u>.</u>	
	Top	1	The second secon	The second secon	TOPATOR I	to the second constitution of the second	**************************************	And the second s	Account of the former and the resummation of the state of	ements on distinguished to the control of the contr	*** **********************************	
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	Bottom		AC 67 CO Collection and Arramans rapp parameter way gave to the Arramans and Arramans are parameters was a fine of the Arramans and Arramans are parameters was a fine of the Arramans and Arramans are parameters was a fine of the Arramans and Arramans are parameters was a fine of the Arramans and Arramans are parameters was a fine of the Arramans and Arramans are parameters which are the Arramans and Arramans are parameters which are the Arramans are the Arra		Offilia and of the order of the summary pages over the parties of the parties.	And the second s		AL CONTO I AND	And the second s	and moderately (1974) is the least of induces we define a group, more through the control	- The second	
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Container No. SAND HETER A

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

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Flam.	e contramono e abrita e discolari di discolari di polici e della d	Sulf.	CN	Oxld.	Per.	pН	React.	Hex. Sol.	Water Sol.	Layer
			√ 1	ting Results	rization Tes	Hazard Categorization Testing Results	the Hardward of the contract o	- Particular communication and the last communication of the last comm	e de l'ambilité d'artificament administration de mandre d'artification d'artification d'artification d'artific	Andreas Contraction of the Contr
	oge	OL = Solid SDG = Sludge	တ္တ	LIQ = Liquid	DDY = Cloudy	XR = Clear (Abbreviations; OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid	viations; OPC	Abbrev	
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	or (A) Behavily on the experience of the control of	lle		And the contract of the contra				Middle		
	DO probability for your new manners	The second secon	and the state of t	610	ハシメ		CRAY	Тор	Order of the State	
	Ime	% of Total Volume	fate	Physical State	Clarity	C	Color	Layer		
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		PH	Meter	Ked. Mete	Good %U2	9	<u> </u>	Poor		Condition:
			Other	25% Empty	25%	50%	75%	100% OVA/HN::		Waste Volume: Field Screening:
	The state of the s	- Charles - Char		5gal Other:	10gal	30 gal	65 gal	gal		I otal Volume:
		Closed-top Other:	Closed-t	d Open-top	Poly-line	Fiber	Polv	Steel	1S	Construction:
					Tank	Pit	Vat	Drum	ρ	Туре:
			hat apply)	(circle all t	ORMATION	DRUM/CONTAINER INFORMATION (circle all that apply)	DRUM/CON			
							Time:		01-8-10	Date: / C
	THE TRANS OF THE PROPERTY ACTIONS AND ACTION CONTINUES.	Samplers: 🖄 📞	Sampler	With a diff. The second contract of the secon	4	Location: Ind			JE 31	Site Name: _/
				47.70.14		Cr.			- C	
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Date:

Analyst:



Container No. かる かん にや B Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Site Name:	200	Location;		4004	Si	Samplers: 20	
Date:	01/8/10	Time:	manamana atau mahan dengan seri benjan seri pengangan pengangan pengangan pengangan pengangan pengangan pengan	A MARIE CONTRACTOR OF THE PROPERTY OF THE PROP	· ·		
		DRUMCON	DRUM/CONTAINER INFORMATION (circle all that apply)	RMATION (ci	ircle all that a	(A)dd	
Type: Construction: Total Volumo:	Drum Steel	Vat Polv	Pit Fiber	Tank Poly-lined C	pen-top Cl	Tank Poly-lined Open-top Closed-top Other	
Waste Volume: Field Screening:	00 gal 100% OVA/HN:	75%	30 Gal 20%	10gal 5gal Other: 25% Empty		er er	
Condition:	Poor	Fair	Good		Red. Meter	Hd	
	те устаност одновной технологија да стара, одностоја се чарачи другане месе од да д		DRUM/CONTAINER CONTENTS	AINER CONT	ENTS		
	Layer	Color	Clarity	Ajį	Physical State	% of Total Volume	
	2	マダーナ!		CONTRACTOR OF THE PARTY OF THE	6m / Q		SUSSECUTION OF SUSSECUTION
	Middle		The control for the second	Activities and the second seco	e de la companya de	e i alter e de la companya de la com	
	Bottom		i salah dilipudi merencina penyin menerakan pingan didak dilipudi dilabah dilipudi di	THE REPORT OF THE PROPERTY OF	and different comments of the forest and of the company of the com	ellem unterstade (1938). Philosophisistades anno financionadassonada (interstalia) in incidentalia (incidentalia) incidentalia (incidentalia) in incidentalia (incidentalia) in	
	Abbreviations: Ol	PQ = Opaque C	LR = Clear CD	Y = Cloudy L	10 = Liquid SC	Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge	provides.

Hazard Categorization Testing Results

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Charle of the Contract of the	퓹	- Consumer		
Secretary and the second control of the second seco	Hex. React.			THE RESERVE AND ADDRESS OF THE PARTY OF THE
Section Commission of the Comm	Water H			
•	Layer	Top Middle	Bottom	



Waste Stream	Container No.
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DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Sol	Middle Bottom	Layer		Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:	Site Name:
Solubility Abbreviations: S = Soluble Reactivity Abbre Te	1 TH ST TT	Water Hex.	Layer Color Top & A CA C Middle & CAA Bottom Abbreviations: OPQ = Opaque	Drum Steel 85 gal 100% OVA/HNu Poor	10-8-10
= Soluble = in tivity Abbreviation: Test Res	100 mm m m m m m m m m m m m m m m m m m	React.		Vat Polv 65 gal 75% Fair	Location:
ons: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, L Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = No. Test Results: + = Positive Result - = Negative Result	6	Hazard Categorization Testing Results	Clarity Physica CLAR C	Vat Pit Tank Polv Fiber Poly-lined Open-top Closed-top Signal Signal Other: 75% 50% 50% Empty Other Fair Good Red. Meter	on: tack
ally Soluble IL = In W = Water Reactiv sult -= Negative F	es services de la constante de	n Testing Result	NTAINER CONTENTS Physical State Physical State Contents Physical State Phys	MATION (circle all the Tank Poly-lined Open-top 10gal 5gal Other 25% Empty Red. N	
soluble, Lighter IH e N = No Reaction Result		CN	SOL =	top Closed-top Other: Other: Other Red. Meter	Samplers: 🗵
ighter IH ≃ Insoluble, Heavier D Reaction		Sulf. CI	% of Total Volume	her:	
evier .		Flam.			



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Container No.	Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

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Location	Time:	DRUM/CONTA		65 gal 75%		Fair		Color	12 KJA			PQ = Opaque CLR	Hazar
18	01-8-01		Drum Steel	85 gal 100%	OVA/HNu	Poor	and (07/0000), in a challed the statement of the contract of t	Layer	Top	Middle	Bottom	Abbreviations: O	
Site Name:	Date: 10-		Type: Construction:	Total Volume: Waste Volume;	Field Screening:	Condition:							

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Waste Stream	Container No.
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Solubility Abbreviations: S = Soluble	Layer Water Hex. React pH Per. Oxid. Top IL S Middle Bottom S TH Mater Hex. React pH Per. Oxid.	Layer Color Clarity Physica Top Praction Color Clarity Physica Middle- Top Lic Bottom Top Lic Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Lic	Type: Construction: Total Volume: Waste Volume: Field Screening: Condition: Drum Vat Pit Fiber Folly-lined Open-top Close Fold Fair Food Poor Fair Contal Volume: Steel Poly Fiber Fiber Fiber Fiber Fiber Fiber Fiber Fiber Folly-lined Open-top Close Form Cother Cother Fair Good Poor Fair Fair Food Porm Fair Form Fair Form Form Fair Fair Form Form Fair Fair Fair Fair Form Fair Fair Fair Fair Fair Fair Fair Fair	Site Name: SI Location: Twoy Date: 10-8-10 Time: The CRMATION
lly Soluble IL = Insoluble, I W = Water Reactive N = N sult -= Negative Result	Oxid. CN	, w	Tank Tank Poly-lined Open-top Closed 10gal 5gal Other: 25% Empty Other %O ₂ Red. Meter	
Sult	Sulf. CI	te % of Total Volume ここ そう SOL = Solid SDG = Sludge	t apply) Closed-top Other: Other pH	Samplers: R(1
avier	Flam.			



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Container No.	Waste Stream

DRUMICONTAINER SAMPLING LOG

	Samplers: R G	
ACCIPACION はこれではない。	Location: Ewely	Time:
	Site Name:	Date: /0 - 8 - /0

DRUM/CONTAINER INFORMATION (circle all that apply)

Closed-top Other: Other Meter
Tank Poly-lined Open-top 10gal 5gal Other: 25% Empty %O ₂ Red. N
Pit Fiber 30 gal 50%
Vat Polv 65 gal 75%
Drum Steel 85 gal 100% OVA/HNI
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

Layer	Color	Clarity	Physical State	% of Total Volume
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Bottom	Addition of the contract of th	emanderman ejirkeji rivis jahajdeli da selekulari kaja jahada da projekta kaja jahaj kaja jahaj kaja jahaj kam Tara kaja kaja kaja kaja kaja kaja kaja k	ade urbino ne medional quodate de la principa (appara) candiqui un remajo de de tra la hallandique feneral	American in the common water oppose only ophism is consistent of the section and common against a participate of the experimental consistent amends as
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Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

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Layer	Water Sol.	Hex. Sol.	React.	Hd	act. pH Per. Oxld. C	Öxld.	CN	Sulf.	ō	Flam,
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Wasta Stream	Container No.
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	ble, Heavier	r IH = Insolu	soluble, Lighter e N = No Rea	Soluble IL = Insolub Water Reactive N	ons: S = Soluble = Insoluble PS = Partially Soluble L = Insoluble, Lighter H = Insoluble, Heavier Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = No Reaction Test Results: + = Positive Result - = Negative Result	I = Insoluble F lations: A = Air F t Results: + = P	= Soluble = vity Abbreviati Test R	Solubility Abbreviations: S = Soluble Reactivity Abbre	Solubility A	
The relationship of the second	Applications and the state of t									Middle Bottom
Flam.	COLUMN TO SECULO	Sulf.	CN	Oxid.	pH Per Oxid.	Hd Cale	React	Hex.	Water Sol.	Layer
	dge	SDG = Sludge	d SOL = Solid	y LIQ = Liqui	CDY = Cloud	CLR = Clear	H Opaque	Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid Hazard Catagorica Total = Communication Tot	Ą	
suspendal sol		% of Total Volume	ele	Physical State	DRUM/CONTAINER CONTENTS Clarity Physica	DRUM/C	Color Brn	Layer Top Middle Bottom		
		Other pH	-top Closed-top Other: Other Other Red. Meter	Tank Poly-lined Open-top 10gal 5gal Other: 25% Empty %O ₂ Red. N	Tank Poly-lin 10gal 25% %O ₂ Good	Pit Fiber 30 gal 50%	Vat Polv 65 gal 75% Fair	Drum Steel 85 gal 100% OVA/HNu Poor	tion: ume: olume: eening: r:	Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:
			that apply)	V (circle all ı	DRUM/CONTAINER INFORMATION (circle all that apply)	NTAINERI	DRUM/CC			
		28	Samplers:		ndy	Location:	Locat	-8-10		Site Name:
	eam	Waste Stream	Ğ	MPLING LO	DRUM/CONTAINER SAMPLING LOG	RUM/CON	ס			



Container No. Suilett 1997 Waste Stream

DRUM/CONTAINER SAMPLING LOG

	GENERAL INFORMATION	
Site Name:	Location:	Samplers: RC
Date: 10 - 3 - 70	Time:	

DRUM/CONTAINER INFORMATION (circle all that apply)

osed-top Other:
Tank Poly-lined Open-top Closed-top Other: 10gal 5gal Other: 25% Empty Other %O ₂ Red. Meter pl-
Pit Fiber 30 gal 50% Good
Vat Polv 65 gal 75%
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening:

DRUM/CONTAINER CONTENTS

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		Act the content of th	AMERICAN COMPANY AND	erenderet (), en de de statut en estat inner en desemble de se	(Ун — часное технічнік алтарі фірмаціятоломой дій гібековинні колоручасня гіберці котемут растра від тірма і цанава

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

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Container No.	
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DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Analyst:	Solut	Top Middle Bottom ゆる			Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:	Date:	Site Name
Luky W	Solubility Abbreviations: S = Soluble Reactivity Abbre Te		Water Hex. Sol. Sol.	Layer Color Top 8/4 Middle Bottom Abbreviations: OPQ = Opaque	Drum Steel 85 gal 100% OVA/HNu Poor	0-8-16	
	ικ ≤.	***************************************	React.	Color Black O = Opaque CI	Vat Polv 65 gal 75%	Time:	-
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	tially Soluble IL = Insolub W = Water Reactive N : esult -= Negative Result	A CALLEDON	on Testing Res	NTAINER CONTENTS Clarity Physical Stands 1/4 5/5 CDY = Cloudy LIQ = Liquid	Tank Poly-lined Open-top 10gal 5gal Oth 25% Empty %O ₂ Red	IATION (circle a	
Dale:	Insoluble, Lighter IH Stive N = No Reaction e Result	1,000	ults CN	ate (,	Other: Other Other Red. Meter	Samplers: AC	
10-8-10	r IH = insoluble ection		Sulf.	% of Total Volume	Other:	A.C.	*****
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Container No.	Waste Stream

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m	Samplers:	
DRUMICONTAINER SAMPLING LOG GENERAL INFORMATION	Location: I diely	Time:
	E S (9/-8-01
	ite Name:)ate:

DRUM/CONTAINER INFORMATION (circle all that apply)

DRUM/CONTAINER CONTENTS

Middle Bottom		JOIOS	Clarity	Physical State	% of Total Volume
	Middle	7223-14	25		And the state of t
	Bottom	Abbayer i fisha sabasasanin san mara ara ar'ugin shojah Majimasa Albasa kasano san apagagagaga	American (An 1954) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960) (1960)	e de la company designation de la company de	emplotte V Miller de Anne employen empere est established establishen som miller options per established ann americ

Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

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	Hex. Sol.	7.7	AND A POSSIBLE AND A
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Container No. Leaking Taxalars
Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

CF gra CBY Frysical State % of Total Volume	SOL = 80	paque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solution Testing Results eact. pH Per. Oxid. CN
	SOL = Solid	e CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge Hazard Categorization Testing Results Per. Oxld. CN Sulf.

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Container No.	Waste Stream

DRUMICONTAINER SAMPLING LOG

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	ite Name: Est	hate: 10 -9-76

DRUM/CONTAINER INFORMATION (circle all that apply)

Closed-top Other. Other ster
Fank Poly-lined Open-top Closed-1 10gal 5gal Other: 25% Empty Other %O ₂ Red. Meter
Pit Fiber 30 gal 50% Go
Vat Polv 65 gal 75% Fair
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

ra/er	Color	Clarity	Physical State	% of Total 1011mo	
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Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

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DRUM/CONTAINER SAMPLING LOG

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ër	ubie, Heav	PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier Reactive W = Water Reactive N = No Reaction Positive Result - = Negative Result	nsoluble, Light re N=No Re Result	Soluble IL = Insolub Water Reactive N: -= Negative Result	S = Partially So eactive W = \ sitive Result	le I = Insoluble PS = Partially S reviations: A = Air Reactive W = Test Results: + = Positive Result	ons: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = No Reaction Test Results: + = Positive Result -= Negative Result	eviations: S Reacti	Solubility Abbreviations: S = Soluble Reactivity Abbre	.
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	ıme	% of Total Volume	ale .	Physical State	DRUM/CONTAINER CONTENTS Clarity Physica	DRUM/CO	Color A A b	Layer Top Middle	2 2 3 3 3 3 3 3 3 3 3 3	
	Marketin of the Approximation	PH	Red. Meter		Good %O ₂ —		Fair	Poor		Condition:
	eredycrosocololite apart output	p Other:	Closed-top Other.	Tank Poly-lined Open-top 10gal 5gal Other: 25% Empty	Tank Poly-lin 10gal 25%	Pit Fiber 30 gal 50%	Vat Polv 65 gal 75%	Drum Steel 85 gal 100%		Type: Construction: Total Volume: Waste Volume:
			that apply)	N (circle all	DRUM/CONTAINER INFORMATION (circle all that app	NTAINER IN	DRUM/CO			
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Container N	Waste Strea

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Samplers: XB		
Location: Indy	Time:	
Site Name: 15 /	Date: 10 - 9 - 10	

DRUM/CONTAINER INFORMATION (circle all that apply)

Tank Poly-lined Open-top Closed-top Other: 10gal 5gal Other: 25% Empty Other %O ₂ Red. Meter
Tank Poly-ling 10gal 25% %02
Pit Fiber 30 gal 50%
Vat Polv 65 gal 75% Fair
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

Layer	Color	Clarity	Physical State	4. of Total Volume
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Bottom		ды од од да менения остана достој и удеранских и станор од од от то подавата се дената постана станор од от ст	MAN MANA, o relució amazima a mana esperamente respiringua des e quançaban de sebuquar es s'aggis des arrejos	нико (VIII) (160 до поделено мене удено в сем веремент приментичного представление сементо сементо поставление
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Appreviations: UP(7 = Opaque CLF	< = Clear CDY = Clouc	Jy LIQ = Liquid SOL :	Abbreviations: UPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

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Waste Stream	Container No.
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	xns: S = Soluble 1 = Insoluble PS = Partially Soluble L = Insoluble, Lighter H = Insoluble, Heavier Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = No Reaction Test Results: + = Positive Result - = Negative Result	soluble, Lighter IH e N = No Reaction tesult	ioluble IL = Insoluble Water Reactive N : - = Negative Result	ie I = Insoluble PS = Partially S reviations: A = Air Reactive W = Test Results: + = Positive Result	Insoluble Fons: A = Air Fons: A = P	= Soluble = ivity Abbreviati Test R	Solubility Abbreviations: S = Soluble Reactivity Abbre Te	Solubility Abb	Analyst
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•			= :	gorization Te	azard Cate	*	Annual Market State (State Communication of the Com	The contraction of the contracti	
		FISS - 108		CDY = Cloudy	CLR = Clear	-	Abbreviations: OPQ = Opaque	Abb	
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	Amazandi dana kana kana atau atau atau atau atau atau atau a	to discuss (complete or discussion ships or many	ONTENTS	DRUM/CONTAINER CONTENTS	DRUM/CO	Color	Layer	determination in the state of	
		ייפת. ואיפיפו	1160.	Good		Fair	Poor		Condition:
		Other	Empty	% % % % % % % % %	50%	/5%	OVA/HNu		Field Screening:
	er.	Closed-top Other.	10gal 5gal Other:	Foly-II	30 gal	65 gal	85 gal		Total Volume:
		2		Tank	n P	Vat Poly	Drum Steel		Type: Construction:
		hat apply)	DRUM/CONTAINER INFORMATION (circle all that apply)	VFORMATIC	NTAINER II	DRUM/CO			
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Management of a complete and a compl		Samplers:		· vd y	Location:	loc		ESI	Site Name:
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Container No. D. North Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Samolers:	
ocation: Indy	ime:
Site Name: CS/ Loc	Date: 10-9-10 Tin

DRUM/CONTAINER INFORMATION (circle all that apply)

-top Closed-top Other: Other: Other Red. Meter pH
Tank Poly-lined Open-top Closed 10gal 5gal Other: 25% Empty Other %O ₂ Red. Meter
Pit Fiber 30 gal 50%
Vat Polv 65 gal 75%
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

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Solubility Abbreviations: S = Soluble | = Insoluble PS = Partially Soluble |L = Insoluble, Lighter |H = Insoluble, Heavier Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = No Reaction Test Results: + = Positive Result - = Negative Result

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Waste Stream	Container No.
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Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH = Insoluble, Heavier Reactive W = Water Reactive N = No Reaction Test Results: + = Positive Result - = Negative Result Analyst:	Layer Water Sol. Hex. Sol. React. PH Per. Oxid. CN Sulf. CI Middle Bottom 5 \$\frac{1}{2}\triangle \frac{1}{2}\triangle \frac{1}{	Layer Color Clarity Physical State % of Total Volume Top 32.4.6.6.0.7.0.0.7.0.0.5.0.0.5 Middle Softom CRANCE CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge	Type: Construction: Total Volume: Waste Volume: Field Screening: Condition: Drum Vat Pit Fiber Folly-lined Open-top Closed-top Other: Closed-top Other: Condition: OVA/HNu Fair Good DRUM/CONTAINER INFORMATION (circle all that apply) Fiber Folly-lined Open-top Closed-top Other: Closed-top Other: Closed-top Other: Fiber Fiber Folly-lined Open-top Closed-top Other: Closed-top Other: Closed-top Other: Closed-top Other: Fiber Fiber Folly-lined Open-top Closed-top Other: Cl	Site Name: ESI Location: Tridy Samplers: RC Date: 10-8-10 Time:
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intainer No. (58-74	aste Stream
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DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

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	ite Name: (5 /	hate: / 0 - 85 / 0

DRUM/CONTAINER INFORMATION (circle all that apply)

	Tank Poly-lined Open-top Closed-top Other: 10gal 5gal Other: 25% Empty Other %O2 Red. Meter
-	Fiber Foly-lined Ope 30 gal 10gal 5gal 50% Empty %O ₂
	Drum Vat Steel Polv 85 gal 65 gal 100% 75% OVA/HNu Fair
	Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

Layer	Color	Clarity	Physical State	% of Total Volume	
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Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

Hazard Categorization Testing Results

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Waste Stream	Container No.
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Container No.	Waste Stream

DRUM/CONTAINER SAMPLING LOG

DRUM/CONTAINER INFORMATION (circle all that apply)

Closed-top Other: Other Aeter Aeter
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Pit Fiber 30 gal 50%
Vat Polv 65 gal 75% Iu
Drum Steel 85 gal 100% OVA/HN Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

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Hazard Categorization Testing Results

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DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION Location: Time: Container No. Waste Stream Samplers: Re	Container No. Waste Stream		Samp	Time:	DRUM/CONTAINER INFORMATION (circle all that apply)
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DRUM/CONTAINER CONTENTS

Good

Type:
Construction:
Total Volume:
Waste Volume:
Field Screening:
Condition:

Drum Steel 85 gal 100% OVA/HNu Poor

Vat Polv 65 gal 75%

Pit Fiber 30 gal 50%

Tank
Poly-lined Open-top
10gal 5gal Other
25% Empty
%O₂ Red. N

Other:

Closed-top Other:

Red. Meter

Other

Appreviations: OPC	Bottom	Middle	Layer
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Hazard Categorization Testing Results

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DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

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Site Name:	Date:		Type: Construction:

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Tank	Poly-lined Open-top	10gal 5gal Othe	25% Empty	%O ₂ Red	**************************************
Di t	Fiber	30 gal	20%		Good
Vat	Polv	op gal	75%		Fair

85 gal 100% OVA/HNu

Poor

Field Screening: Condition:

Total Volume: Waste Volume:

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Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble L = Insoluble, Lighter H = Insoluble L = Insoluble, Lighter H = Insoluble L = Insoluble L = Insoluble, Lighter H = Insoluble L = Insoluble IL = I	Hazard Categorization Testing Results Layer Water Hex. Sol. Sol. Sol. Sol. Sol. Sol. Sol. Sol	DRUM/CONTAINER CONTENTS Clarity Physical State C PQ 2/10	Type: Construction: Total Volume: Waste Volume: Field Screening: Condition: Type: Drum Vat Pit Fiber Poly-lined Open-top Closed-top Other: Possed-top Other: Power Fair Good Drum Vat Pit Fair Poly-lined Open-top Power Power Poly-lined Open-top Power Poly-lined Open-top Power Power Power Power Power Poly-lined Open-top Power Powe	Site Name: ES/ Location: Tacky Samplers: RC Time:
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Container No. Free Tork 8

waste stream	Samplers: RC	
DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION	Location: In el., Sa	
	ile Name: ESI	

DRUM/CONTAINER INFORMATION (circle all that apply)

Date:

	Closed-top Other.	Hd
		Red. Meter
Tank	Poly-lined Open-top 10gal 5gal Other. 25% Empty	%O ₂ Red.
		Good
ă	Fiber 30 gal 50%	
		Fair
Vat	Polv 65 gal 75%	
Drum	Steel 85 gal 100%	Poor
Type:	Construction: Total Volume: Waste Volume:	Condition:

DRUM/CONTAINER CONTENTS

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Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid SDG = Sludge

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Waste Stream	Container No.
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DRUM/CONTAINER SAMPLING LOG

Sol	Layer Top Middle Bottom		Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:	Site Name:
Solubility Abbreviations: S = Soluble I = Insoluble PS = Partially Soluble IL = Insoluble, Lighter IH Reactivity Abbreviations: A = Air Reactive W = Water Reactive N = No Reaction Test Results: + = Positive Result - = Negative Result	Ager Water Hex. React. pH Per. Oxid. CN Top S I H	Layer Color Clarity Physical State % c Top Thx CDY Physical State % c Middle Middle CDY CDY Sot Bottom MACK CDR Sot Sot Abbreviations: OPQ = Opaque CLR = Clear CDY = Cloudy LIQ = Liquid SOL = Solid	DRUM/CONTAINER INFORMATION (circle all that apply) Drum Vat Pit Tank Steel Polv Fiber Poly-lined Open-top Closed-top Other: 100% 75% 50% Empty Other OVA/HNu Pair Good %O2 Red. Meter pi	GENERAL INFORMATION Name: (- 5) Location: (- 10 6 - 10) Samplers: (- 10 6 - 10) Time: (- 10 6 - 10) Time: (- 10 6 - 10)
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Container No. 1) SON He. Waste Stream

DRUM/CONTAINER SAMPLING LOG GENERAL INFORMATION

Samplers: KB	
Location:	Time:
Site Name: ESI	Date: 10 9-20/0

DRUM/CONTAINER INFORMATION (circle all that apply)

Closed-top Other. Other Meter
Tank Poly-lined Open-top Clos 10gal 5gal Other. 25% Empty Other.
Pit Fiber 30 gal 50% Good
Vat Polv 65 gal 75% Fair
Drum Steel 85 gal 100% OVA/HNu Poor
Type: Construction: Total Volume: Waste Volume: Field Screening: Condition:

DRUM/CONTAINER CONTENTS

Layer	Color	Clarity	Physical State	% of Total Volume
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Hazard Categorization Testing Results

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Analyst:

APPENDIX C LABORATORY ANALYTICAL RESULTS



October 21, 2010

Mr. Richie Byrd Environmental Restoration, LLC 2750 Contant Comment Place Louisville, KY 40299

RE: Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

Dear Mr. Byrd:

Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mick Mayse for Kenneth Hunt

Wick Mayse

kenneth.hunt@pacelabs.com

Project Manager

Illinois/NELAC Certification #: 100418 Indiana Certification #: C-49-06 Kansas Certification #: E-10247 Kentucky Certification #: 0042 Louisiana Certification #: 04076

Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Cortification #: 33

West Virginia Certification #: 330

Enclosures







SAMPLE SUMMARY

Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5042370001	ESI D SOUTH 10-12	Non Aqueous	10/12/10 14:30	10/12/10 16:15
5042370002	ESI TRANS TANK 10-12	Non Aqueous	10/12/10 14:05	10/12/10 16:15
5042370003	ESI FRAC 7 10-12	Non Aqueous	10/12/10 15:00	10/12/10 16:15
5042370004	ESI FRAC 8 10-12	Non Aqueous	10/12/10 15:15	10/12/10 16:15
5042370005	ESI FRAC 9 10-12	Non Aqueous	10/12/10 15:30	10/12/10 16:15







SAMPLE ANALYTE COUNT

Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5042370001	ESI D SOUTH 10-12	EPA 8082	LKC	8	PASI-I
5042370002	ESI TRANS TANK 10-12	EPA 8082	LKC	8	PASI-I
5042370003	ESI FRAC 7 10-12	EPA 8082	LKC	8	PASI-I
5042370004	ESI FRAC 8 10-12	EPA 8082	LKC	8	PASI-I
5042370005	ESI FRAC 9 10-12	EPA 8082	LKC	8	PASI-I





Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

Sample: ESI D SOUTH 10-12 Lab ID: 5042370001 Collected: 10/12/10 14:30 Received: 10/12/10 16:15 Matrix: Non Aqueous

Liquid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Met	hod: EPA 808	2 Preparation Met	hod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 14:48	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND m	g/kg	40.0	20	10/14/10 09:45	10/19/10 14:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 14:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 14:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 14:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 14:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 14:48	11096-82-5	
Tetrachloro-m-xylene (S)	0 %)	55-133	20	10/14/10 09:45	10/19/10 14:48	877-09-8	S4





Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

Sample: ESI TRANS TANK 10-12 Lab ID: 5042370002 Collected: 10/12/10 14:05 Received: 10/12/10 16:15 Matrix: Non Aqueous

Liquid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Met	thod: EPA 808	2 Preparation Met	hod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 14:59	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND m	ıg/kg	40.0	20	10/14/10 09:45	10/19/10 14:59	11104-28-2	
PCB-1232 (Aroclor 1232)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 14:59	11141-16-5	
PCB-1242 (Aroclor 1242)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 14:59	53469-21-9	
PCB-1248 (Aroclor 1248)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 14:59	12672-29-6	
PCB-1254 (Aroclor 1254)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 14:59	11097-69-1	
PCB-1260 (Aroclor 1260)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 14:59	11096-82-5	
Tetrachloro-m-xylene (S)	0 %)	55-133	20	10/14/10 09:45	10/19/10 14:59	877-09-8	S4





Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

Sample: ESI FRAC 7 10-12 Lab ID: 5042370003 Collected: 10/12/10 15:00 Received: 10/12/10 16:15 Matrix: Non Aqueous

Liquid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Met	thod: EPA 808	2 Preparation Met	hod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:11	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND m	ıg/kg	40.0	20	10/14/10 09:45	10/19/10 15:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:11	11096-82-5	
Tetrachloro-m-xylene (S)	0 %)	55-133	20	10/14/10 09:45	10/19/10 15:11	877-09-8	S4





Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

Sample: ESI FRAC 8 10-12 Lab ID: 5042370004 Collected: 10/12/10 15:15 Received: 10/12/10 16:15 Matrix: Non Aqueous

Liquid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Met	thod: EPA 808	2 Preparation Met	hod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:23	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND m	ıg/kg	40.0	20	10/14/10 09:45	10/19/10 15:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:23	12672-29-6	
PCB-1254 (Aroclor 1254)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:23	11097-69-1	
PCB-1260 (Aroclor 1260)	ND m	ıg/kg	20.0	20	10/14/10 09:45	10/19/10 15:23	11096-82-5	
Tetrachloro-m-xylene (S)	0 %	•	55-133	20	10/14/10 09:45	10/19/10 15:23	877-09-8	S4





Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

Sample: ESI FRAC 9 10-12 Lab ID: 5042370005 Collected: 10/12/10 15:30 Received: 10/12/10 16:15 Matrix: Non Aqueous

Liquid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Met	hod: EPA 808	2 Preparation Met	hod: EF	PA 3580			
PCB-1016 (Aroclor 1016)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 15:35	12674-11-2	D3
PCB-1221 (Aroclor 1221)	ND m	g/kg	40.0	20	10/14/10 09:45	10/19/10 15:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 15:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 15:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 15:35	12672-29-6	
PCB-1254 (Aroclor 1254)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 15:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND m	g/kg	20.0	20	10/14/10 09:45	10/19/10 15:35	11096-82-5	
Tetrachloro-m-xylene (S)	0 %)	55-133	20	10/14/10 09:45	10/19/10 15:35	877-09-8	S4





QUALITY CONTROL DATA

Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

QC Batch: OEXT/21355 Analysis Method: EPA 8082

QC Batch Method: EPA 3580 Analysis Description: 8082 GCS PCB Oil

Associated Lab Samples: 5042370001, 5042370002, 5042370003, 5042370004, 5042370005

METHOD BLANK: 494533 Matrix: Non Aqueous Liquid

Associated Lab Samples: 5042370001, 5042370002, 5042370003, 5042370004, 5042370005

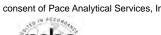
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND ND	1.0	10/19/10 14:36	
PCB-1221 (Aroclor 1221)	mg/kg	ND	2.0	10/19/10 14:36	
PCB-1232 (Aroclor 1232)	mg/kg	ND	1.0	10/19/10 14:36	
PCB-1242 (Aroclor 1242)	mg/kg	ND	1.0	10/19/10 14:36	
PCB-1248 (Aroclor 1248)	mg/kg	ND	1.0	10/19/10 14:36	
PCB-1254 (Aroclor 1254)	mg/kg	ND	1.0	10/19/10 14:36	
PCB-1260 (Aroclor 1260)	mg/kg	ND	1.0	10/19/10 14:36	
Tetrachloro-m-xylene (S)	%	108	55-133	10/19/10 14:36	

LABORATORY CONTROL SAMPLE: 494534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg		4.0	81	50-150	
PCB-1260 (Aroclor 1260)	mg/kg	5	4.8	97	50-150	
Tetrachloro-m-xylene (S)	%			102	55-133	

Date: 10/21/2010 02:38 PM REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: ESI Indpls / EE5-47

Pace Project No.: 5042370

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-I Pace Analytical Services - Indianapolis

ANALYTE QUALIFIERS

Date: 10/21/2010 02:38 PM

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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PRECISION PETROLEUM LABS, INC.

CERTIFICATE OF ANALYSIS

LABORATORY ADDRESS

5915 Star Lane, Houston, TX 77057

Ph. 713-680-9425 Fax: 713-680-9564

Website: precisionlabs.org

Client Name: Pace Analytical Services, Inc-IN

Street Address: 7726 Moller Rd

City, State, Zip: Indianapolis, IN 46268

INVOICE No.	46738	DATE RECEIVED	10-15-2010
LAB REFERENCE No.	2010-10-320	DATE/TIME COLLECTED	10-12-10@14:30
AUTHORIZED BY	Kenneth Hunt	MATRIX TYPE	Liquid
PRODUCT ID	5042370001		

TCLP METALS	CAS#	TEST METHOD	REPORTING LIMIT MG/L	RESULTS MG/L	REGULATORY LEVEL MG/L
Arsenic	7440-38-2	EPA-1311/6010	0.500	BRL	5.000
Barium	7440-39-3	EPA-1311/6010	0.100	1.448	100.000
Cadmium	7440-43-9	EPA-1311/6010	0.100	BRL	1.000
Chromium	7440-47-3	EPA-1311/6010	0.150	1.521	5.000
Lead	7439-92-1	EPA-1311/6010	0.390	0.646	5.000
Mercury	7439-97-6	EPA-1311/6010	0.170	BRL	0.200
Selenium	7782-49-2	EPA-1311/6010	0.630	BRL	1.000
Silver	7440-22-4	EPA-1311/6010	0.130	BRL	5.000
DATE ANALYZED:	10-19-2010	100000000000000000000000000000000000000			
ANALVET INITIAL C.	TH				

ANALYST INITIALS: T.H.

Daniel Zabihi QA Manager

Date: 10-19-2010

PRIMARY ACCREDITATION TCEQ, #T104704203-TX ARIZONA LICENSE # AZ0630

QUALIFIERS & ABBREVIATIONS: BRL - Below Reporting Limit; SCL - Test performed by an approved subcontract laboratory; B - Analyte was detected in the associated method blank; Matrix spike/matrix spike duplicate (M), Laboratory control sample (L), Calibration criteria (C), and Surrogate (S) recoveries were outside acceptance limits. Test deviation applied to Method 8260 (VOCS).

COMMENTS: There were no quality assurance anomalies associated with these tests.

PRECISION PETROLEUM LABS, INC.'S RESPONSIBILITY FOR THE ABOVE ANALYSIS, OPINIONS OR INTERPRETATIONS IS LIMITED TO THE INVOICE AMOUNT. RESULTS ARE REPORTED ON AN "AS IS" BASIS, UNLESS OTHERWISE NOTED. THE TEST RESULTS RELATE ONLY TO THE SUBMITTED SAMPLE IDENTIFIED ON THIS REPORT. TEST RESULTS MEET ALL REQUIREMENTS OF NELAC FOR TESTS LISTED ON THE LABORATORY'S CURRENT FIELDS OF ACCREDITATION (EPA 1010, 6010, 8082, 8260, and 9075).

PRECISION PETROLEUM LABS, INC.

CERTIFICATE OF ANALYSIS

LABORATORY ADDRESS

5915 Star Lane, Houston, TX 77057

Ph. 713-680-9425 Fax: 713-680-9564

Website: precisionlabs.org

Client Name: Pace Analytical Services, Inc-IN

Street Address: 7726 Moller Rd

City, State, Zip: Indianapolis, IN 46268

INVOICE No.	46738	DATE RECEIVED	10-15-2010
LAB REFERENCE No.	2010-10-321	DATE/TIME COLLECTED	10-12-10@14:05
AUTHORIZED BY	Kenneth Hunt	MATRIX TYPE	Liquid
PRODUCT ID	5042370002		

TCLP METALS	CAS#	TEST METHOD	REPORTING LIMIT MG/L	RESULTS MG/L	REGULATORY LEVEL MG/L
Arsenic	7440-38-2	EPA-1311/6010	0.500	BRL	5.000
Barium	7440-39-3	EPA-1311/6010	0.100	1.095	100.000
Cadmium	7440-43-9	EPA-1311/6010	0.100	BRL	1.000
Chromium	7440-47-3	EPA-1311/6010	0.150	0.867	5.000
Lead	7439-92-1	EPA-1311/6010	0.390	BRL	5.000
Mercury	7439-97-6	EPA-1311/6010	0.170	BRL	0.200
Selenium	7782-49-2	EPA-1311/6010	0.630	BRL	1.000
Silver	7440-22-4	EPA-1311/6010	0.130	BRL	5.000
DATE ANALYZED:	10-19-2010				

ANALYST INITIALS: T.H.

Daniel Zabihi QA Manager

Date: 10-19-2010

PRIMARY ACCREDITATION TCEQ, #T10470420 ARIZONA LICENSE # AZ0630

QUALIFIERS & ABBREVIATIONS: BRL - Below Reporting Limit; SCL - Test performed by an approved subcontract laboratory; B - Analyte was detected in the associated method blank; Matrix spike/matrix spike duplicate (M), Laboratory control sample (L), Calibration criteria (C), and Surrogate (S) recoveries were outside acceptance limits. Test deviation applied to Method 8260 (VOCS).

COMMENTS: There were no quality assurance anomalies associated with these tests.

PRECISION PETROLEUM LABS, INC.'S RESPONSIBILITY FOR THE ABOVE ANALYSIS, OPINIONS OR INTERPRETATIONS IS LIMITED TO THE INVOICE AMOUNT. RESULTS ARE REPORTED ON AN "AS IS" BASIS, UNLESS OTHERWISE NOTED. THE TEST RESULTS RELATE ONLY TO THE SUBMITTED SAMPLE IDENTIFIED ON THIS REPORT. TEST RESULTS MEET ALL REQUIREMENTS OF NELAC FOR TESTS LISTED ON THE LABORATORY'S CURRENT FIELDS OF ACCREDITATION (EPA 1010, 6010, 8082, 8260, and 9075).



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant lields must be completed accurately.

Pace Analytical"

Pace Project No./ Lab I.D. Samples Intact (Y/N) DRINKING WATER 22420 SAMPLE CONDITIONS 444882 OTHER (N/A) 3 Sealed Cooler 9 3 Custody Ice (Y/V) Received on GROUND WATER Residual Chlorine (Y/N) O° ni qmaT 7 Page: REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) Ħ 10/20/0 STATE Site Location DATE NPDES UST Cestoration ACCEPTED BY / AFFILIATION MUSH UD) THE WELLS ↓ tesT sisylsnA↓ N/A Other alBal A vilana. JEREMY ROBINSON Methanol _EO_SS_SbN Preservatives HOBN HCI Invoice Information: ^EONH Company Name: ⁵OS^zH Manager: Pace Profile #: *S |0* Section C Reference: Pace Project Unpreserved 뿔 Pace Quote Address: Affention # OF CONTAINERS SAMPLER NAME AND SIGNATURE 10-12-10 PRINT Name of SAMPLER: SAMPLE TEMP AT COLLECTION DATE 뿔 COMPOSITE END/GRAB Indpls DATE COLLECTED RELINGUISHED BY / AFFILIATION 05H/ 421-91 6/12-10/530 8/1 TIME 50/10-12-10/1405 00 6 1-12-10 1515 10-12+ 1500 CKA6 COMPOSITE START DATE いること Section B Required Project Information: S S (GREGRAB C=COMP) 39YT 3J9MA2 Purchase Order No.: ş ટ્રે ક્રે Project Number: (see valid codes to left) MATRIX CODE Project Name: ORIGINAL Report To: Copy To: Matrix Codes 10-17 10-12 Drinking Water Water
Waste Water
Product
Soil/Solid
Oil
Wipe
Air
Tissue 636-680-459 10-12 Email To: C. byrd (Per//C. Com s tenderd ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE Address: 5400 Herring -124c 8 SAMPLE ID 1215W しんかり Company Grucomenta Nobbesulle 1 Section A Required Client Information: Required Client Information 3214-194(25) Requested Due Date/TAT: Section D アンゴ W 4 10 CO. 9 # ۲œ 6 # WHL

INDERING AND ALCA
Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1,5% per month for agarmicologs not a

SIGNATURE of SAMPLER:

F-ALL-Q-020rev.07, 15-May-2007

01-21-01

DATE Signed (MM/DD/YY):

Sample Condition Upon Receipt

Sall	npie condition	1 Opon Receipt	
Face Analytical Client Name:	: EMUINO	montal 1	Project # <u>5074376</u>
	Resto	rection	
Courier: Fed Ex UPS USPS Clien Tracking #:	t Commercial	Pace Other	
Custody Seal on Cooler/Box Present: yes	no Seals	s intact: 🗹 yes 🔲	no
Packing Material: Bubble Wrap Bubble	Bags 🗌 None	Other	
Thermometer Used 12346 ABCDE	Type of Ice: We	t Blue (lone)	Samples on ice, cooling process has begun
Cooler Temperature 27.2°C	ice Visible in Sa	ample Containers:	yes no
Temp should be avoid so for some sound be avoid and some sound some sound some sound some sound	oled -	Comments:	Date and Initials of person examining contents: 10/0/18/1904
Chain of Custody Present:	TYes □No □N/A	1.	
Chain of Custody Filled Out:	-⊟Yes □No □N/A	2.	
Chain of Custody Relinquished:	☐Yes ☐No ☐N/A	3.	
Sampler Name & Signature on COC:	☐Yes □No □N/A	4.	
Short Hold Time Analysis (<72hr):	□Yes □No □N/A	5.	
Rush Turn Around Time Requested:	□Yes ☑No □N/A	6.	
Containers Intact:	ÉYes □No □N/A	7.	
Sample Labels match COC:	Yes □No □N/A	8.	
-Includes date/time/ID/Analysis All containers needing preservation have been pH checked?	□Yes □No ☑Ñ/A	9.	
exceptions: VOA, collform, TOC, O&G, WI-DRO (water)			
All containers needing preservation are found to be in compliance with EPA recommendation.	□Yes □No □N/A		
Headspace in VOA Vials (>6mm):	□Yes □No ☑Ñ/A	10.	
Trip Blank Present:	□Yes ⊡No □N/A	11.	
Trip Blank Custody Seals Present	□Yes ZMo □N/A		
Project Manager Review			
Samples Arrived within Hold Time:	Yes DNo DN/A	12.	
Sufficient Volume:	Oxes □No □N/A	13.	
Correct Containers Used:	XDXes □No □N/A	14.	
Client Notification/ Resolution:	/		Field Data Required? Y / N
Person Contacted:	Date	/Time:	
Comments/ Resolution:			
			-
	···	<u></u>	
		/	
/	17	/	
Project Manager Review:	MA TJU	\sim	Date: /()/(3//)

Pace Analytical

CLIENT: ENJ-ron Mentell Restation

COC PAGE _____ of (_____

Project # 504370

Comments DG9H AG1U WGFU R 4/6 BP2N BP2U BP2S BP3N BP3U BP3S AG3S AG1H Sample Line Item N 10 က 4 ro| 7 12 Ó ග \sim æ

Container Codes								
DG9H 40mL HCL amber voa vial	oer voa vial	ΑF	AF Air Filter	BP1N	BP4N 1 liter HNO3 plactic			
AG1U 1liter unpreserv	1liter unpreserved amber glass	AG1H	AG1H 1 liter HCL amber class	BD10	4 libra Docova alastic	250	DGSP 40mL ISP amber vial	
WGFU 4oz clear soil jar		AG1S	AG1S 1 liter H2SO4 amher class	5 12	DD111 1 fite mean	DG9S	DG9S 40mL H2SO4 amber vial	
R terra core kit		AG1T	AG1T 1 lifer Na Thiosulfate ambor al	2 6	DE 10 Iller unpreserved plastic	DG9T	DG9T 40mL Na Thio amber vial	
BP2N 500mL HNO3 plastic		AG2N	AG2N 500ml HNO3 smbor along	71.70	DF12 I Iffer NaOH, Zn, Ac	DG90	40mL unpreserved amber vial	
BP2U 500mL unpreserved plastic		AC.20	Soom Locour	P CA	DPZA SUUML NaUH, Asc Acid plastic		Wipe/Swab	
BP28 500ml U2604 alactic	\dagger	2000	ACCOUNT TOOM amber glass	8220	BP20 500mL NaOH plastic	JGFU	JGFU 4oz unpreserved amber wide	
DESTRUCTION OF THE PROPERTY OF		AGZU	AGZU 500mL unpreserved amber gla	BP2Z	BP2Z 500mL NaOH, Zn Ac	⊃	U Summa Can	
BESIN ZOUML HINO3 plastic		AG3U	AG3U 250mL unpreserved amber ala	BP3A	BP3A 250ml NaOh Aec Acid plactic	700/		
BP3U 250mL unpreserved plastic		BG1H	BG1H 1 liter HCl clear class	7200	Depart Nach Lines	L .	VOST 40mL HCL clear vial	
BP3S 250mL H2SO4 plastic		8618	BG1S 1 liter H2SO4 clear class	2 6	DI SO ZOUTE INDO PIESTIC	1697	40mL Na Thio. clear vial	
AG3S 250ml H2SO4 glass ambar		1	The state of the s	מראל	Br32 ZoumL NaOH, Zn Ac plastic	VG9U	VG9U 40mL unpreserved clear vial	
AG18 1 lifer U2004 2 the		5 6	Doil I liter Na I hiosultate clear gla	ठ	C Air Cassettes	VSG	VSG Headspace septa vial & HCI	
D0411 4 E4-		BG10	BG1U 1 liter unpreserved glass	DG9B	DG9B 40mL Na Bisulfate amber vial	WGFX	WGFX 4oz wide jar w/hexane wine	
or rol i liter unpreserved plastic		BP1A	BP1A 1 liter NaOH, Asc Acid plastic	DG9M	DG9M 40mL MeOH clear vial	ZPLC	ZPLC Ziploc Bag	